

Curriculum Vitae



Personal data:

Name: Adnan Al-Lahham
Date of birth: 15, June 1963
Nationality: German
Current job: Associate Prof., German-Jordanian University, Amman, Jordan
Telephone: +962 6 4294444/Ext 4434
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Education:

1981 Governmental High School Certificate
1985 Bachelor of Public Health- Yarmouk University- Jordan
1989 M.Sc in Biology-Microbiology-Yarmouk Univ. – Jordan
1998 Ph D in Biology- Microbiology- RWTH-Aachen- Germany

Scholarships

1981- 1985 Bachelor's Degree from the Ministry of Education, Jordan
1985- 1989 Master's Degree from Yarmouk University, Jordan
1992- 1996 Ph D, University of Aachen-Germany – DAAD, Germany

Occupation and Post Doctorate

1985-1992 Teaching and Research Assistant at Yarmouk University, Jordan
University of Science and Technology (JUST), Royal Medical
Service School and at High School in Sana'a- Yemen
1998-2006 Assistant Professor, Researcher and Diagnostics at the
University Hospital of Aachen– Institute of Medical
Microbiology and the National Research Center for Streptococci
in Aachen-Germany
Since Feb. 2006 Assistant Professor at the School of Applied Medical Sciences at
the German-Jordanian University - Jordan
Since March 2008 Head of Biomedical Engineering Department at the GJU
Since 24.05.2010 Promoted as Associate Prof. at the GJU

Computer Courses

Win word; Access; Excel; Corel; Power point, and other
experiences with scientific programs as well as bioinformatics
Arabic, English, German (excellent) and little Spanish

Languages

Discoveries

During PhD Gene description online; Locus T 38705; GI: 7490593: length
498; molecular weight 56152; checksum 2210; Gene #
SPAC13F10.04 Map position 1; includes glutathione gamma
glutamylcysteinyltransferase (EC 2.3.2.15); *glutathione synthase*
(EC 6.3.2.3); superfamily *glutathione synthase*.
1998 - 2006 Description of **30 new alleles** in 7 House keeping genes in *S.*
pneumoniae (*aroE*, *gdh*, *gki*, *recP*, *spi*, *xpt*, and *ddl*), and
Definition of **124 new Multi Locus Sequence Types** of *S.*
pneumoniae, Description of **12 different sequences of the**
ermB gene in *S. pneumoniae* submitted to EMBL Genbank with
the following accession numbers: (DQ855638; DQ855639,
DQ855640, DQ855641, DQ855642, DQ855643, DQ855644,
DQ855645, DQ855646, DQ855647, DQ855648, DQ855649).

Memberships:

1993-2001	Environmental mutagen society, USA
since 2004	European Society for Chemotherapy, Vienna, Austria
since 2006	American Society for Microbiology, USA
1998-2005	ESPED (European Society for Paediatric Infectious
Diseases)	
2006-2012	DAAD committee member for the pre-selection of PhD
	scholarships for Jordan Nationals
2006-2007	German Jordanian University Council Member
2006/2012	Exchange Officer for Biomedical Engineering at the GJU

Awards:

2010	GJU Excellence day award as best researcher, 2010
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Publications: See Appendix A

Conferences: See Appendix B

Appendix A (Publications-International Journal papers-)

- 1- Ioanna N. Grivea¹, George A. Syrogiannopoulos¹, Adnan Al-Lahham², Maria Panagiotou¹, Alexandra G Tsantouli¹, Hellenic Antibiotic-Resistant Respiratory Pathogens (HARP) Study Group, Ralf René Reinert², Mark van der Linden². 2013. Seven-Year Surveillance of emm Types of Pediatric Group A Streptococcal Pharyngitis Isolates in Western Greece. **On pipeline submission** to PLOS ONE Journal 2013
- 2- Rawaa Al-Kayali, Hala Khyami-Horani, Adnan Al-Lahham, Mark van der Linden. Resistance patterns and risk factors of *Streptococcus pneumoniae* carriage among healthy Jordanian children. **On pipeline submission** to PIDJ 2013
- 3- Adnan Al-Lahham, Mathias Pletz, Ralf René Reinert, Mark van der Linden. Characterization of fluoroquinolone non-susceptible clinical isolates of *Streptococcus pneumoniae* in Germany: 1992-2009. **On pipeline submission**
- 4- Adnan Al-lahham, Jumana Abu Qayyas, Mark van der Linden, and the vaccination committee of the ministry of health. Impact of the 7 valent pneumococcal conjugate vaccine on nasopharyngeal carriage of *Streptococcus pneumoniae* in healthy Jordanian infants (2009-2010). **On pipeline submission**
- 5- Adnan Al-lahham, Jumana Abu Qayyas, Mark van der Linden, and the vaccination committee of the ministry of health. Pneumococcal serotype distribution among children in Jordan is tribe dependent. Summary of 3 consequent studies (2005-2010). **On pipeline submission**
- 6- Adnan Al lahham, 2013. Colonization of *Streptococcus pneumoniae* among pediatric population of Wadi Al Seer in Jordan. Chemotherapy. **On pipeline submission**
- 7- Peter Uciechowski, Heidi Imhof, Christopf Lange, Christian G. Meyer, Rolf D. Horstmann, Detlef K. Kirsten, Anja K. Schröder, Bernd Schaaf, Adnan Al-Lahham, Ralf René Reinert, Norbert Reiling, Adelheid Hatzmann, Daniela Fleischer, Nicole Heusen, Michael Kleines, and Lothar Rink. Susceptibility to tuberculosis is associated with TLR1 743 polymorphism resulting in a lack of TLR1 cell surface expression. 2011. **Journal of Leukocyte Biology**. 409-433. **Journal impact factor = 4.4**. GJU Affiliation
- 8- Lintges M, van der Linden M, Hilgers RD, Arlt S, Al-Lahham A, Reinert RR, Plücken S, Rink L. 2010. Superantigen genes are more important than the *emm* type for the invasiveness of group A Streptococcus infection. **J Infect Dis**. 2010 Jul 1;202(1):20-8. **5.8 impact factor**

- 9- Mark van der Linden, Adnan Al-Lahham, Werner Nicklas and Ralf René Reinert. Evidence for an Extra-Human Reservoir for Pneumococcal Infections in pets and Laboratory Animals. *PLoS One*. 2009 Dec 14; 4(12): e8286. **Impact factor 4.35**
- 10- Ralf René Reinert, Olga Y. Filimonova, **Adnan Al-Lahham**, Svetlana A. Grudinina, Elena N. Ilina, Linda M. Weigel, and Sergey V. Sidorenko. 2008. Characterization of the mechanisms of macrolide-resistance among *Streptococcus pneumoniae* isolates from Russia. **Antimicrob. Agents and Chemother.** **52(6):2260-2**
- 11- Maria Lintges, Sabine Arlt, Peter Uciechowski, Birgit Plümäkers, Ralf R. Reinert, **Adnan Al-Lahham**, Rudolf Lütticken, Lothar Rink. 2007. A New Closed Tube Multiplex Realtime PCR to Detect the Eleven Superantigens of *Streptococcus pyogenes* Identifies a Strain Without Superantigen Activity. **Internat. J of Med Microbiol (IJMM)**. **297(6):471-478**.
- 12- Ralf René Reinert, Mark van der Linden, Irene Seegmüller, **Adnan Al-Lahham**, Anette Siedler, Bärbel Weißmann, Andre Toschke and Rüdiger von Kries. 2007. Molecular epidemiology of penicillin-resistant *Streptococcus pneumoniae* isolated from children with invasive pneumococcal disease in Germany. **Clin. Microbiol. and Inf. (CMI)**. **13(4):363-368**.
- 13- **Adnan Al-Lahham** and Ralf René Reinert. 2007. Time-kill kinetics of clinical isolates of *Streptococcus pneumoniae* with reduced susceptibility to telithromycin. **Chemotherapy**. **53(3):190-193**
- 14- Mark van der Linden, **Adnan Al-Lahham**, Stefan Haupts, and Ralf René Reinert. 2007. Clonal spread of *mef* positive macrolide-resistant *Streptococcus pneumoniae* in invasive disease in adults in Germany. **Antimicrob Agents and Chemother** **51(5): 1830-1834**.
- 15- Christiana Heeg, Carmen Franken, Mark van der Linden, **Adnan Al-Lahham** and Ralf René Reinert. 2007. Genetic diversity of pneumococcal surface protein A in *Streptococcus pneumoniae* in Germany. **Vaccine**. **25(6):1030-5**.
- 16- **Adnan Al-Lahham**, Peter C. Appelbaum, Mark van der Linden, Ralf René Reinert. 2006. Telithromycin-nonsusceptible clinical isolates of *Streptococcus pneumoniae* from Europe. **Antimicrob Agents and Chemother**. **50(11):3897-3900**.
- 17- Mahbubur Rahman, Shereen Shoma, Harunur Rashid, Shahadat Hussain, A. H. Baqui, Mark van der Linden, **Adnan Al-Lahham** and Ralf René Reinert. 2006. Emergence of a Unique Multiply Antibiotic-Resistant *Streptococcus pneumoniae* Serotype 7B Clone in Dhaka, Bangladesh. **Journal of Clinical Microbiology**. **44(12): 4625-27**.

- 18- Ioanna, N. Grivea, **Adnan Al-Lahham**, George D. Katapodis, George A. Syrogiannopoulos, Ralf R. Reinert. 2006. Resistance to erythromycin and telithromycin in *Streptococcus pyogenes* isolates from Greek children with Tonsillopharyngitis during 1999-2002: A phenotypic and genotypic analysis. **Antimicrob Agents and Chemother.** **50**(1):256-61.
- 19- Anette Siedler, Ralf René Reinert, Michael Toschke, Adnan Al-Lahham, Rüdiger von Kries, and ESPED Clinic and Laboratory Study Group. 2005. Regional differences in the epidemiology of invasive pneumococcal disease in toddlers in Germany. **Paediatric Infectious Disease Journal (PIDJ).** **24**(12):1114-5.
- 20- Ralf René Reinert, Michael R. Jacobs, Peter C. Appelbaum, Saralee Bajaksouzian, Soraia Cordeiro, Mark van der Linden and Adnan Al-Lahham. 2005. Relationship between the original multiply resistant South African isolates of *Streptococcus pneumoniae* from 1977 to 1978 and contemporary international resistant clones. **Journal of Clinical Microbiology (JCM).** **43**(12):6035-6041.
- 21- Ralf René Reinert, Stefan Haupts, Mark van der Linden, Christiane Heeg, Murat Cil, **Adnan Al-lahham** and David Fedson. 2005. Invasive pneumococcal disease in adults in North-Rhine Westphalia, Germany, 2001-2003. **Clinical Microbiology and Infection.** **11**(12):985-91.
- 22- **Adnan Al-Lahham**, Noel J. De Souza, Mahesh Patel, and Ralf René Reinert. 2005. Activity of the new quinolones WCK 771, WCK 1152 and WCK 1153 against clinical isolates of *Streptococcus pneumoniae* and *Streptococcus pyogenes*. **Journal of antimicrob Chemothe.** **56**(6): 1130-1133.
- 23- Ralf René Reinert, Mark van der Linden and **Adnan Al-Lahham**. 2005. Molecular characterization of the first telithromycin-resistant *Streptococcus pneumoniae* isolate in Germany. **Antimicrob Agents and Chemother.** **49**(8): 3520-3522.
- 24- Ralf René Reinert, Susanne Reinert, Murat Y Cil, Mark van der Linden, **Adnan Al-Lahham**, Peter Appelbaum. 2005. Antimicrobial susceptibility of *Streptococcus pneumoniae* in eight European countries in 2001-2003: findings of the PNEUMOWORLD study. **Antimicrob Agents and Chemother.** **49**(7): 2903-2913.
- 25- Ralf René Reinert and **Adnan Al-Lahham**. 2005. Time kill studies on the activity of telithromycin against macrolide-resistant *S. pneumoniae* isolates with mutations in the 23S rRNA and changes in the ribosomal proteins L4 and L22. **Antimicrobial Agents and Chemotherapy.** **49**(7): 3011-3013.

- 26- Ralf René Reinert, Adrian Ringelstein, Mark van der Linden, Murat Yücel Cil, **Adnan Al-Lahham** and Franz Josef Schmitz. 2005. Molecular epidemiology of macrolide-resistant *Streptococcus pneumoniae* isolates in Europe. **Journal of Clinical Microbiology**. **43**(3): 1294-1300.
- 27- Ralf René Reinert, Rudolf Lütticken, Susanne Reinert, **Adnan Al-Lahham**, and Sebastian Lemmen. 2004. Antimicrobial resistance of *Streptococcus pneumoniae* isolates of outpatients in Germany, 1999-2000. **Chemotherapy**. **50**(4):184-189.
- 28- **Adnan Al-Lahham**, Rudolf Lütticken and Ralf René Reinert. 2004. Molekularbiologische Untersuchungen bei Pneumokokkenstämmen mit Chinolon- und Makrolidresistenz. **Klinik und Forschung** **10** (supplement 1/2004): Pages, 20-21
- 29- Ralf René Reinert, Carmen Franken, Mark van der Linden, Rudolf Lütticken, Murat Cil, and **Adnan Al-Lahham**. 2004. Molecular characterisation of macrolide resistance mechanisms of *Streptococcus pneumoniae* and *Streptococcus pyogenes* isolated in Germany, 2002-2003. **International Journal of Antimicrobial Agents**. **24**(1): 43-47.
- 30- Ralf René Reinert, Rudolf Lütticken, and **Adnan Al-Lahham**. 2004. High-level fluoroquinolone resistance in a clinical *S. pyogenes* isolate in Germany. **Clinical Microbiology and Infection**. **10**(7): 659- 62.
- 31- Ralf René Reinert, Rudolf Lütticken, Joyce A. Sutcliffe, Amelia Tait-Kamradt, Murat Y. Cil, Holger M. Schorn, André Bryskier, and **Adnan Al-Lahham**. 2004. Clonal relatedness of erythromycin-resistant *Streptococcus pyogenes* isolates in Germany. **Antimicrobial Agents and Chemotherapy**. **48**(4): 1369-1373.
- 32- Reinert, R. R., Muckel, S., **Al-Lahham, A.**, Spratt, B. G., Brüggemann, A. B. , Hackenbeck, R., and Lütticken, R. 2003. Characterization of German penicillin non susceptible serotype 23F pneumococci using multilocus sequence typing. **J. Med. Microbiol.** **52**(pt11): 981-987.
- 33- Ralf René Reinert, Angela Wild, Peter Appelbaum, Andre Bryskier, Rudolf Lütticken, Murat Yücel Cil, and **Adnan Al-Lahham**. 2003. Ribosomal mutations conferring resistance to macrolides in *Streptococcus pneumoniae* clinical strains isolated in Germany. **Antimicrobial Agents and Chemotherapy**. **47**(7): 2319-2322.
- 34- Reinert, R. R., Lütticken, R, Bryskier, A., Cremer, C., Neuberger, N. and **Al-Lahham, A.** 2003. Macrolide resistant *Streptococcus pneumoniae* and *Streptococcus pyogenes* in the pediatric population in Germany during 2000-2001. **Antimicrobial Agents and Chemotherapy**. **47**(2): 487-493.

- 35- Von Kries, R. Hermann, M., **Al-Lahham, A.**, Siedler, A., and Reinert, R. R. 2002. Will the 7-valent pneumococcal vaccine have a similar impact on all invasive pneumococcal infections in children in Germany as in the Kaiser permanent Trial? 2002. **Euro J Pediatr.** **161**(Supp2): 140-143.
- 36- Von Kries, R., Hermann, M., Hachmeister, A., Siedler, A., Schmitt, H. J., **Al-Lahham, A.** and Reinert, R. R. 2002. Prediction of the potential benefit of different pneumococcal conjugate vaccines on invasive pneumococcal disease in German children. **Pediatr Infect Dis J,** **21**(11): 1017-1023.
- 37- Reinert, R. R., **Al-Lahham, A.**, Lütticken, R. Boos, M., and Scmitz, F-J. 2001. Characterization of clinical *Streptococcus pneumoniae* strains from Germany with decreased susceptibility to fluoroquinolones. **J. Antimicrob. Chemother.** **49**(6): 1015-1018.
- 38- Reinert, R. R., **Al-Lahham, A.**, Lemperle, M., Tenholte, C., Briefs, C., Haupts, S., Gerard, H. H. and Lütticken, R. 2001. Emergence of macrolide and penicillin resistance among invasive pneumococcal isolates in Germany. **J. Antimicrob. Chemother.** **49**(1): 61-68.
- 39- Reinert, R. R., **Al-Lahham, A.** and Lütticken, R. 2001. *In-vitro* activity of cefditoren against clinical isolates of penicillin-susceptible and penicillin-intermediate strains of *Streptococcus pneumoniae* isolated in Germany, 1992-1998. **J. Antimicrob. Chemother.** **48**(2): 279-281.
- 40- Reinert, R. R., Eiff, C. v., Kresken, M. Brauers, J., Hafner, D., **Al-Lahham, A.**, Schorn, H., Lütticken, R., and Peters, G. 2001. Nationwide German multicenter study on the prevalence of antibiotic resistance in streptococcal blood isolates from neutropenic patients and comparative *in vitro* activities of Quinupristin-Dalfopristin and eight other antimicrobials. **J. Clinical Microbiology.** **39**(5): 1928-1931.
- 41- Reinert, R. R., Simic, S., **Al-Lahham, A.**, Reinert, S., Lemperle, M. and Lütticken, R. 2001. Antimicrobial resistance of *Streptococcus pneumoniae* recovered from outpatients with respiratory tract infections in Germany from 1998 to 1999: Results of a national surveillance study. **J. Clinical Microbiology.** **39**(3): 1187-1189.
42. Lemmen, S., **Al-Lahham, A.**, Lütticken, R. and Reinert, R. R. 2001. *In vitro* activity of gemifloxacin against *Streptococcus pneumoniae* isolates in Germany. **Chemotherapy.** **47**(2): 104-109.
43. Reinert, R. R., **Al-Lahham, A.**, Lemmen, S. and Lütticken, R. 2000. *In vitro* activity of gatifloxacin against *Streptococcus pneumoniae* isolates in Germany. **J. Antimicrob. Chemother.** **46**(5), 854-856.

44. **Al-Lahham, A.**, Rohde, V., Heim, P., Leuchter, R., Veek, J., Wunderlich, C., Wolf, K. and Zimmerman, M. 1999. Biosynthesis of Phytochelatins in the Fission Yeast. Phytochelatin Synthesis: A Second Role for the Glutathione Synthetase Gene of *Schizosaccharomyces pombe*. **Yeast.** **15(5):** 385-396.
45. **Al-Lahham A. B.**, M. Abu Saud and A. A. Shehabi. 1990. Prevalence of *Salmonella*, *Shigella* and Intestinal Parasites in Food- Handlers in Irbid- Jordan. **J. Diarrhoeal Dis. Res.** **8(4):** 160- 162.

Other Papers on pipe line

- 1- Mahbubur Rahman, Shereen Shoma, Harunur Rashid, Shahadat Hossain, Abdullah He Baqui, Adnan Al-Lahham and Ralf Rene Reinert. 2006. Antimicrobial susceptibility and serotypes distribution of *Streptococcus pneumoniae* isolated in hospitalized children with invasive pneumococcal diseases and comparison with carrier isolates in Bangladesh.
- 2- Molecular Characterization of Trimethoprim-Sulfamethoxazole (SXT) resistant *S. pneumoniae* in BANGLADESH. **On Pipe-line**
- 3- Cefotaxime resistant *S. pneumoniae* in Jordan
- 4- Vaccine failure in Germany.
- 5- CAPNETZ Study- Cooperation with Mathias Plätz; and CAPNETZ of NRCS (2)
- 6- Tigecycline time-kill kinetics and MICs
- 7- MLST of RESP

Appendix B (Conferences)) from eldest to the most recent

- 1- **Adnan Al-Lahham**, Martin Zimmermann, Klaus Wolf. Analysis of Cadmium-Sensitive Mutants of *Schizosaccharomyces pombe*. 10. Hammermühle-Hefe-Tagung, Oct. 13-15, 1994, Ober-Ramstadt, Deutschland. P2.
- 2- **Adnan Al-Lahham**, Martin Zimmermann, Klaus Wolf. (Tag der Biologie) an der RWTH Aachen, Oct. 1994, and Oct. 1995 in Aachen, Deutschland. 2 Poster presented.
- 3- **Adnan Al-Lahham**, Martin Zimmermann, Klaus Wolf. Isolation and Characterization of a Putative *Schizosaccharomyces pombe* Gene for *Phytochelatin synthase*. VAAM Microbiology, 24-27 März, 1996, Bayreuth, Deutschland.
- 4- Martin Zimmermann, Ralf Leuchter, Christian Wunderlich, **Adnan Al-Lahham**, Quingshi Zhao, Michael Kriegmaier, and Klaus Wolf. Cadmium Resistance of *Schizosaccharomyces pombe*. Umbrilla-Symposium (Biotechnology): 10- 12 Nov. 1997/ Research Center of Jülich. PVIII.
- 5- **Adnan Al-Lahham**, Volker Rhode, Klaus Wolf, and Martin Zimmermann. Cloning and analysis of a DNA segment restoring phytochelatin synthesis in a mutant of fission yeast synthesizing glutathione but with a deficiency in phytochelatin synthesis. The 18th International Conference on Yeast Genetics and Molecular Biology. March 31st – April 5th, 1997. Stellenbosch-South Africa.
- 6- Martin Zimmermann, Christian Wunderlich, Volker Rhode, **Adnan Al-Lahham**, Quingshi Zhao, Ralf Leuschter and Klaus Wolf. Cadmium resistance of *Schizosaccharomyces pombe*. 18th International Specialized Symposium on Yeasts. August 24th – 29th, 1997. Bled, Slovenia.
- 7- **Adnan Al-Lahham**, Volker Rhode, Petra Heim, Ralf Leuschter, J. Veeck, Christian Wunderlich, Klaus Wolf, and Martin Zimmermann. Biosynthesis of phytochelatins in fission yeast. Current genetics 35: 375. XIX International Conference on Yeast Genetics and Molecular Biology. May 1999
- 8- Reinert, R. R., **A. Al-Lahham**, R. Lütticken and K. Machka. 1999. *In vitro* Activity of SB-265805 against *Streptococcus pneumoniae* in Germany. 9th **ECCMID** (European Conference of Clinical Microbiology and Infectious Diseases). 21th - 24th März 1999 in Berlin. P 219.

- 9- Ralf Rene Reinert, Anette Siedler, **Adnan Al-Lahham**, Rudolf Lütticken, Rüdiger v. Kreis. Invasive pneumococcal infections among children in Germany: Incidence, serotype distribution, and antibiotic susceptibility. *ESPID`99* (17th Annual Meeting of the European Society for Paediatric Infectious Diseases). 19th- 21th May 1999 in Heraklion, Crete, Greece. P 138.
- 10- Reinert, R. R., **A. Al-Lahham**, S. Simic, S. Reinert, M. Lemperle, and R. Lütticken. Antimicrobial Resistance of *Streptococcus pneumoniae* Recovered from Respiratory Tract Infections (RTI) of Outpatients in Germany, 1998- 1999: Results of a 20 Center National Surveillance Study. 39th *ICAAC* (Interscience Conference on Antimicrobial Agents and Chemotherapy). 24th -29th Sept. 1999 in San Francisco/ U.S.A. P1041.
- 11- Reinert, R. R., Siedler, A., **Al-Lahham**, A., Lütticken, R., Kries, R. v. 1999. Invasive Pneumococcal Disease in the Pediatric Population of Germany: First Results of a Nation-Wide Population-Based Study. Proceedings of the XIV Lancefield International Symposium on Streptococci and Streptococcal Diseases (XIV LISSSD). Auckland, New Zealand/ 11-15. Oct. 1999. P3.5.
- 12- Reinert, R. R., Janetzko-Schmid, P., **Al-Lahham**, A., Reinert, S., Lemperle, M. and Lütticken, R. 2000. In Vitro Activity of Gatifloxacin against *Streptococcus pneumoniae* Isolates in Germany. Munich. 8th Biennial Conference on Antiinfective Agents and Chemotherapy (BICON 2000). 12-15 March 2000. P234.
- 13- **Al-Lahham**, A., Tenholte, C., Lütticken, R. and R. R. Reinert. 2000. Characterization of penicillin resistant pneumococci isolated in Germany: 1992-1998. Munich (DGHM 2000) 12-16 March 2000. Poster 15.P.16.04.
- 14- **Al-Lahham**, A., Stefan, H., Lütticken, R. and R. R. Reinert. 2000. Serotype distribution, antimicrobial resistance and molecular characterization of erythromycin resistant *Streptococcus pneumoniae* in Germany, 1992-1998. Munich (DGHM 2000) 12-16 March 2000. Poster 15.P.16.03.
- 15- Reinert, R. R., **Al-Lahham**, A., Haupts, S. and Lütticken, R. 2000. Increase of erythromycin resistance among clinical isolates of *Streptococcus pneumoniae* in Germany. The second International Symposium on Pneumococci and Pneumococcal Diseases. Sun City, North-West Province, South Africa, 19- 23 March 2000. Poster P81.

- 16- Reinert, R. R., **Al-Lahham, A.**, Simic, S. and Lütticken, R. 2000. Nationwide surveillance study on antibiotic resistance of *Streptococcus pneumoniae* isolated from respiratory tract infections of outpatients in Germany, 1998-1999. The second International Symposium on Pneumococci and Pneumococcal Diseases. Sun City, North-West Province, South Africa, 19- 23 March 2000. Poster P82.
- 17- Reinert, R. R., **Al-Lahham, A.**, Tenholte, C., Haupts, S. and Lütticken, R. 2000. Surveillance of Antibiotic Resistance of Pneumococci in Germany, 1992-1998. 9th International Congress on Infectious Diseases (9th ICID) . Buenos Aires, Argentina. April 10-13, 2000. P 12.011.
- 18- Reinert, R. R., **Al-Lahham, A.**, Bungenstab, J., Schorn, H. and Lütticken, R. 2000. Antibiotic resistance of *Streptococcus pyogenes* and *S. pneumoniae* strains isolated from infections of outpatients in Germany, 1999-2000. The 40th Interscience Conference on Antimicrobial Agents and Chemotherapy ICAAC 2000. Toronto, Canada. Sept. 17-20, 2000. Poster 2150.
- 19- Reinert, R. R., Siedler, A., **Al-Lahham, A.** Lütticken, R. and Kries, v. R. 2001. Surveillance of invasive pneumococcal disease in the paediatric population of Germany, 1992-1999. The 19th Annual Meeting of the European Society for Paediatric Infectious Diseases (ESPID), Istanbul, Turkey. March 26-28, 2001. Poster 176.
- 20- Reinert, R. R., **Al-Lahham, A.**, Muckel, S. and Lütticken, R. 2001. Characterization of serotype 23F penicillin non susceptible *Streptococcus pneumoniae* strains isolated in Germany with Multilocus Sequence Typing. (ECCMID) Istanbul, Turkey. April 1-4, 2001. Clinical Microbiology and Infection 7 (1): 1-394. AbstractP583.
- 21- Reinert, R. R., **Al-Lahham, A.**, Ringelstein, A., Lütticken, R. and Schmitz, F.-J. 2001. Characterization of erythromycin resistant *S. pneumoniae* isolates recovered from eleven European medical centers. (ECCMID) Istanbul, Turkey. April 1-4, 2001. Clinical Microbiology and Infection 7 (1): 1-394. Abstract P472.
- 22- Reinert, R. R., **Al-Lahham, A.**, Haupts, S., and Lütticken, R. 2001. Incidence of M-phenotype (*mefE*) and MLSB-type (*ermB*) among erythromycin resistant *S. pneumoniae* isolates recovered in Germany; 1992-1999. (ECCMID) Istanbul, Turkey. April 1-4, 2001. Clinical Microbiology and Infection 7 (1): 1-394. Abstract P473.

- 23- Reinert, R. R., **Al-Lahham, A.**, Marek, A., Lütticken, R and Spellerberg, B. 2001. Allelic variations of an internal locus of the pyruvate oxidase gene *spxB* among pneumococci isolated in Germany. (ECCMID) Istanbul, Turkey. April 1-4, 2001. *Clinical Microbiology and Infection* 7 (1): 1-394. Abstract P585.
- 24- Gellner, K., Gartung, C., Janssens, S., Lemmen, S., **Al-Lahham, A.**, Matern, Lütticken, R. and Reinert, R. R. 2001. Infective endocarditis caused by methicillin-resistant *Staphylococcus aureus* successfully treated with quinupristin-dalfopristin and cefepime. 6th European Conference on Infectious Diseases (EuCID). Leipzig, Germany. Mai 3-6, 2001. Poster PP A. 35.
- 25- Reinert, R. R., Muckel, S., Lütticken, R and **Al-Lahham, A.** 2001. Characterization of the German penicillin non susceptible *Streptococcus pneumoniae* strains of the serotype 23F with Multilocus Sequence Typing. (35th DGHM) Aachen, Germany. 29. Sept. 2001- 4 Oct. 2001. Poster 106.
- 26- Reinert, R. R., Lütticken, R. Briefs, C., Neuberger, N., Lemperle, M., and **Al-Lahham, A.** 2001. Antibiotic resistance of *Streptococcus pyogenes* and *Streptococcus pneumoniae* strains isolated from RTI of outpatients in Germany, 2000-2001. 41th ICAAC in Chicago, USA. Dec. 16-19, 2001. Poster 693. Correspondence to Adnan Al-Lahham.
- 27- Reinert, R. R., Siedler, A., **Al-Lahham, A.**, Lütticken, R. and Kries, R. V. 2002. A four year surveillance of invasive pneumococci in the pediatric population of Germany before starting vaccination with prevenar. Poster 2001-A-141. ISPPD, May 5-8, 2002; Anchorage, Alaska, USA.
- 28- Rudolf Lütticken, Claudia Brandt, Ralf René Reinert, **Adnan Al-Lahham**, Barbara Spellerberg, Gerhard Haase. Report of the National Reference Center for Streptococci, 54. Jahres Tagung der Deutschen Gesellschaft für Hygiene und Mikrobiologie, Heidelberg.
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