

ÅRSRAPPORT 2012

KLINISK MIKROBIOLOGISK AFDELING

AFSNIT 7602 + 9301

RIGSHOSPITALET
INDHOLDSFORTEGNELSE

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Prøver til bakteriologisk og parasitologisk undersøgelse (9301 og 7602), 2012

Prøvemateriale gruppe	Prøver	Vægtning	Analyser	Prøver	2011
Blod	1.386	1	1.386		1.408
Ekssudater	8.051	1	8.051		8.963
Fæces	14.057	5	70.285		56.380
Luftvejssekreter	10.148	1	10.148		9.653
Podninger	16.578	1	16.578		15.268
Spinalvæsker	1.601	1	1.601		1.878
Uriner	23.382	1	23.382		23.104
Væv	4.458	1	4.458		4.295
Miljøprøver	35	1	35		0
Fremmedlegmer	2.891	1	2.891		2.707
Bloddyrkningskolber	24.101	2	48.202		51.126
CF Luftvejssekreter	5.225	3	15.675		14.949
Luftvejsprøver (Sinusprojekt)	475	1	475		0
Andet	463	1	463		299
I alt	112.851		203.630	112.851	190.030
Heraf prøver til parasitologisk undersøgelse			4.827		3.645
Udvidet identifikation	0	0	0		
I alt			0	0	
Prøver til andre analyser (9301 og 7602)					
Serum antibiotika konc.			8.204		7.588
Øvrige (endotoxin, granulocyt test)			59		90
I alt			8.263	8.263	7.678
Hygiejneprøver					
			6.066		9.391
Prøver til virologisk undersøgelse (inkl. bl.a. Toxoplasmose, Legionella, TB)					
Prøvemateriale gruppe					
Blod			14.870		15.023
Ekssudater			150		281
Fæces			1.600		1.503
Luftvejssekreter			2.517		2.232
Podninger			1.694		2.281
Spinalvæsker			452		505
Uriner			312		320
Væv			34		23
Andet			937		870
I alt			22.566	22.566	23.038
Analyser udført på prøver til virologisk undersøgelse					
Serologiske analyser			32.216		32.047
RNA/DNA påvisning ved PCR			35.483		32.152
I alt antal udførte virologiske analyser			67.699		64.199
Prøver i Elektroforeselab. (inkl. speciel identifikation)					
			3.472	3.472	3.648
Analyser udført på prøver i Elektroforeselab.					
Præcipitiner (antal plader)			9.748		9.392
Pseudomonas ELISA			390		2.295
Aspergillus ELISA			798		3.020
Saliva ELISA			0		192
PFGE			257		514
Mycobacterium Abcessus ELISA			0		290
Sinus Elisa marts til august 2011			0		612
I alt antal udførte analyser i elektroforese lab.			11.193		16.315
Antal prøver i alt				147.152	
Antal analyser i alt (sum af tal i kursiv)			296.851		287.613

RÅDGIVNING OG INFORMATION:

Deltagelse i 2-5 daglige konferencer på kliniske afdelinger (22/uge) samt tilsyn af patienter og telefonkontakt til klinikkerne.

Rådgivning i klinisk mikrobiologiske spørgsmål til Grønland og Færøernes sundhedsvæsen.

UDVIKLING OG FORSKNING:

Ph.d. afhandlinger i 2012: 0

Doktordisputatser i 2012: 0

A: ARTIKLER TRYKT I 2012:

- 1 Adjei GO, Oduro-Boatey C, Rodrigues OP, Hoegberg LC, Alifrangis M, Kurtzhals JAL, Goka BQ:
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Combination of microscope techniques reveals a comprehensive visual impression of biofilm structure and composition.
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Multiplex PCR identification of *Taenia spp.* in rodents and carnivores.
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In vivo emergence of *Aspergillus terreus* with reduced azole susceptibility and a *Cyp51a* M217I alteration.
J. Infect. Dis. 206:981-985; 2012.
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New scientific method unmask chronic infections.
http://news.ku.dk/all_news/2012/2012.8/new_scientific_method_unmasks_chronic_infections/
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Ingeniøren, 4/11-2012.
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Vaccinationsforslag ved udlandsrejse.
EPI-nyt, uge 27; 2012.
 - 11 Christensen JJ, Dargis R, Hammer M, Justesen US, Nielsen XC, Kemp M; Danish MALDI-TOF MS Study Group:
Matrix-assisted laser desorption ionization-time of flight mass spectrometry analysis of Gram positive, catalase negative cocci not belonging to the Streptococcus or Enterococcus genus and benefits of database extension
J. Clin. Microbiol. 50:1787-91; 2012.
 - 12 Christensen LD, van Gennip M, Jakobsen TH, Alhede M, Hougen HP, Høiby N, Bjarnsholt T, Givskov M:
Synergistic antibacterial efficacy of early combination treatment with tobramycin and quorum sensing inhibitors against *Pseudomonas aeruginosa* in an intraperitoneal foreign-body infection mouse model.
J. Antimicrob. Chemother. 67:1198-1206; 2012.
 - 13 Christophersen LJ, Trøstrup H, Malling Damlund DS, Bjarnsholt T, Thomsen K, Jensen PØ, Hougen HP, Høiby N, Moser C:
Bead-size directed distribution of *Pseudomonas aeruginosa* results in distinct inflammatory response in a mouse model of chronic lung infection.
J. Clin. Experimental Immunology, 170:222-230, 2012.
 - 14 Ciofu O, Mandsberg L, Wang H, Høiby N:
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 - 15 Cramer N, Wiehlmann L, Ciofu O, Tamm S, Høiby N, Tümmler B:
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 - 16 Dalbøge CS, Nielsen XC, Dalhoff K, Dunø M, Buchard A, Jensen AG, Pressler T, Hengzhuang W, Høiby N, Johansen HK:
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Pediatr. Pulmonology Suppl. 35:339; 2012.
 - 17 Dalbøge CS, Pressler T, Nielsen KG, Høiby N, Johansen HK:
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- 19 Eickhardt S, Brændstrup P, Clasen-Linde E, Jensen KE, Bjarnsholt T, Høiby N, Vindeløv L, Moser C:
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Malaria J. 11:216; 2012.
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Ceftazidime shows concentration-dependent killing on β -lactamase-overproducing biofilm of *Pseudomonas aeruginosa*.
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Antimicrob. Agents Chemother. 57:196-204; 2012.
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- In vivo pharmacokinetics/pharmacodynamics of colistin and imipenem on biofilm *Pseudomonas aeruginosa*.
Antimicrob. Agents Chemother. 56:2683-2690; 2012.
- 27 Hummelshøj T, Ma YJ, Munthe-Fog L, Bjarnsholt T, Moser C, Skjoedt MO, Romani L, Fujita T, Endo Y, Garred P:
The interaction pattern of murine serum ficolin-A with microorganisms.
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Ajoene, a sulfur based quorum sensing molecule from garlic, inhibits genes controlled by quorum sensing.
Antimicrobial Agents and Chemotherapy, 56:2314-2325; 2012.
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Pediatr. Pulmonology Suppl. 35:328; 2012.

- 35 Johansen HK, Aanaes K, Pressler T, Nielsen KG, Fisker J, Skov M, Høiby N, von Buchwald, C:
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J. Comp. Pathol. 147:343-353; 2012.
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Linezolid as rescue treatment for left-sided infective endocarditis: an observational, retrospective, multicenter study.
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J. Infect. Dis. 205:1173-1177; 2012.
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Mutations in 23S rRNA confer resistance against azithromycin in *Pseudomonas aeruginosa*.
Antimicrob. Agents Chemother. 56:4519-4521; 2012. (doi:10.1128/AAC00630-12)
- 40 Molin S, Jelsbak L, Johansen HK, Høiby N:
Evolutionary dynamics of *Pseudomonas aeruginosa* in CF.
Pediatr. Pulmonology Suppl. 35:152-3; 2012.
- 41 Moskowitz SM, Brannon MK, Dasgupta N, Pier M, Sgambati N, Miller AK, Selgrade SE, Miller SI, Denton M, Conway SP, Johansen HK, Høiby N:
PmrB mutations promote polymyxin resistance of *Pseudomonas aeruginosa* isolated from colistin-treated cystic fibrosis patients.
Antimicrob. Agents Chemother. 56:1019-1030; 2012.
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Etiology and epidemiology of catheter related bloodstream infections in patients receiving home parental nutrition in a gastromedical center at a tertiary hospital in Denmark.
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Biophys. J. 102:2372-2380; 2012.
- 44 Rasmussen J, Aanaes K, Norling R, Nielsen KG, Johansen HK, von Buchwald C:
CT of the paranasal sinuses is not a valid indicator for sinus surgery in CF patients.
J. Cyst. Fibros. 11:93-9; 2012.
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The microorganisms in chronically infected end-stage and non-endstage cystic fibrosis patients.
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- 46 Skjøt-Rasmussen L, Olsen SS, Jensen US, Hammerum AM, DANRES Study Group:
Increasing consumption of antimicrobial agents in Denmark parallels increasing resistance in *Escherichia coli* bloodstream isolates.
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- 47 Tofte N, Jensen C, Tvede M, Andersen CB, Carlsen J, Iversen M:
Use of prophylactic voriconazole for three months after lung transplantation does not reduce infection with *Aspergillus*: a retrospective study of 147 patients.
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- 51 Yang L, Song Z:
Pseudomonas aeruginosa biofilm and infection.
Chapter eight in: Xuedong Zhou & Wenyuan Shi (ed): Microbial Biofilm and Infection

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- 52 Yang L, Wang H, Wu H, Pedersen SD, Jochumsen N, Song Z, Givskov M, Høiby N, Molin S:
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FEMS Immunology & Medical Microbiology, Thematic Issue 'Biofilms II' 65:366-376; 2012.
- 53 Yang L, Wu H:
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Chapter thirteen in: Xuedong Zhou & Wenyuan Shi (ed): Microbial Biofilm and Infection (in Chinese) p 330-362. People's Health Publishing House, Beijing 2012 ISBN 978-7-117-15646-2.
- 54 Yang L, Wu H:
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- 55 Yang L, Liu Y, Wu H, Song Z, Høiby N, Molin S, Givskov M:
Combating biofilms.
FEMS Immunology & Medical Microbiology, Thematic Issue 'Biofilms II' 65:146-157; 2012.
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Pathogenesis and treatment concepts of orthopaedic biofilm infections.
FEMS Immunol Med Microbiol. 65:158-168; 2012.
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Culture-dependent and -independent investigations of microbial diversity on urinary catheters.
J. Clin. Microbiol. 50:3901-3908; 2012.
- 58 Aanaes K, Johansen HK, Poulsen SS, Pressler T, von Buchwald C, Høiby N:
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- 59 Aanæs K, Rasmussen N, Pressler T, Segelmark M, Johansen HK, Lindberg U, Høiby N, Carlsson M, Wieslander J, von Buchwald C:
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Scand. J. Immunol. 76:573-579; 2012.

B: ARTIKLER I TRYKKEN 2012:

- 1 Arendrup MC, Pfaller MA, Szajic E, Johansen HK, Kjældgaard P, Knudsen JD, Kristensen L, Leitz C, Lemming LE, Nielsen L, Olesen B, Rosenvinge FS, Røder BL, Schönheyder HC:
Caspofungin E-test susceptibility testing of *Candida* species: Risk of misclassification of susceptible isolates of *C. glabrata* and *C. krusei* when adopting the revised caspofungin CLSI breakpoints.
Antimicrob. Agents Chemother., in press 2012.
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Evaluation of Caspofungin Susceptibility Testing by the New VITEK® 2 AST-YS06 Yeast Card Using a Unique Collection of *FKS* Wild Type and Hot Spot Mutant Isolates Including the Five Most Common *Candida* Species.
Antimicrob. Agents Chemother., accepted 2012.
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PLoS ONE, submitted 2012.
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The bactericidal effect of colistin on planktonic *Pseudomonas aeruginosa* is independent of hydroxyl radical formation.
International Journal of Antimicrobial Agents, submitted 2012.
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Efficacy of a synthetic antimicrobial peptide versus vancomycin in a *Staphylococcus epidermidis* device-related murine peritonitis model.
JAC submitted 2012.
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Extracellular DNA shields against aminoglycosides in *Pseudomonas aeruginosa* biofilms.
Antimicrobial Agents and Chemotherapy, submitted 2012.
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- 9 Dahl A, Rasmussen RV, Bundgaard H, Hassager C, Bruun LE, Lauridsen TK, Moser C, Sogaard P, Arpi M, Bruun NE:
Enterococcus faecalis infective endocarditis: relationship between duration of Gentamicin treatment and outcome.
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- 10 Dalbøge CS, Nielsen XC, Dalhoff K, Alffenaar JCW, Duno M, Buchard A, Uges DRA, Jensen AG, Pressler T, Johansen HK, Høiby N:
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J. Cystic Fibrosis, submitted 2012.
- 11 Dalbøge C, Pressler T, Høiby N, Nielsen K, Johansen HK:
A cohort study of the Copenhagen CF centre eradication strategy against *Staphylococcus aureus* in patients with CF.
J. Cystic Fibrosis, in press 2012.
- 12 Iversen K, Høst N, Bruun NE, Elming H, Pump B, Friis H, Gill S, Rosenvinge F, Egeblad H, Wiggers H, Fursted K, Hansen CH, Korup E, Schønheyder HC, Hassager C, Larsen JH, Moser C, Ihlemann N, Bundgaard H:
Partial oral treatment of endocarditis.
Am Heart J., accepted 2012.
- 13 Jakobsen TH, Bjarnsholt T, Jensen PØ, Givskov M, Høiby N:
Targeting quorum sensing in *Pseudomonas aeruginosa* biofilms: current and emerging inhibitors.
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- 14 Jakobsen T, Hansen M, Jensen PO, Hansen L, Riber L, Cockburn A, Kolben M, Hansen C, Eickhardt S, Hansen M, Kerpedjiev P, Alhede M, Qvortrup K, Burmolle M, Moser C, Kühl M, Ciofu O, Givskov M, Sorensen S, Hoiby N, Bjarnsholt T:
Complete genome sequence of the cystic fibrosis pathogen *Achromobacter xylosoxidans* NH44784-1996 Complies with Important Pathogenic Phenotypes.
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Efficacy of a synthetic antimicrobial peptidomimetic versus vancomycin in a *Staphylococcus epidermidis* device-related murine peritonitis model.
Journal of Antimicrobial Chemotherapy, submitted 2012.
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PMNs restrict the growth of *Pseudomonas aeruginosa* in lungs of Cystic Fibrosis patients.
J. Clin. Investigations, submitted 2012.
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Identification of pathogenic microorganisms directly from positive blood vials by MALDI-TOF.
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E: DIVERSE:

Bjarnsholt T: Vejleder for bachelor stud. Camilla Stavnsbjerg.
Vejleder for bachelor stud. Nina Kornerup.
Vejleder for bachelor stud. Julie Groizeleau.
Vejleder for biologistud. Kasper Thomsen "Physiology of bacterial biofilms", SUND, KU og KMA, RH.
Vejleder for biologistud. Özge Eer "Bacterial infections of soft tissue fillers injections", SUND, KU og KMA, RH.
Vejleder for ph.d. stud. Steffen Robert Eickhardt-Sørensen "The prevalence of implant-associated biofilm infections in patients who have died of other causes", SUND, KU.
Vejleder for ph.d. stud. Kasper Nørskov Kragh "3D spatial structure in multicellular systems: self-assembly, implications and optimization", SUND, KU.
Medvejleder for ph.d. stud. Tim Holm Jakobsen "Udvikling af quorum sensing inhibitorer", SUND, KU.
Medvejleder for ph.d. stud. Louise Dahl Christensen "Kostkomponenter og deres indvirkning på kroniske *Pseudomonas aeruginosa* infektioner", SUND, KU.
Medvejleder for ph.d. stud. Maria van Gennip "Fremtidige behandlingsstrategier af bakterielle infektioner med multifunktionel antimikrobiel medicin", SUND, KU.
Medvejleder for ph.d. stud. Helle Johansen "Identifikation af antimikrobielle stoffer i 2. generations plante-biomasse", SUND, KU.
Sekretær og stifter af biofilm arbejdsgruppen under DSKM.
Sekretær og bestyrelsesmedlem i Dansk Mikrobiologisk Selskab (DMS).
Sekretær for 2nd Eurobiofilm Conference 2011 Copenhagen.

Kasser og bestyrelsesmedlem af ESGB-ESCMID.
Medlem af DSKM.
Guest Editor in chief for Thematic issue of EuroBiofilm 2011 udgivet af FEMSIM 2012.
Editor of Microorganisms.
Editor ass. of FEMS Pathogenesis.
External doctoral evaluator ved University of Milan (Italy).
Member of the editorial board for Wound Healing Society's yearbook series, Advances in Wound Care.
Member of Organizing committee for 5th ASM biofilm conference 2012.
Underviser og udvikler af "Online biofilm course", KU, efterår 2012.
Underviser på ESCMID biofilm kursus, DTU, Lyngby, 27-30/8-2012.
Underviser på Panum "Immunologi og general mikrobiologi", Panum, København, 20/12-2012.
Underviser i medicin øvelseskursus, Panum, København, uge 44 og 45, 2012.
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Reviewer for Microbiology.
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Christiansen CB: Vejleder for Ole Michael Smith bioanalytikerstuderende bacheloropgave: "Påvisning af hepatitis E virus (HEV) antistof i bloddonorer og patienter med kronisk hepatitis C virus (HCV)". Fra september 2012.
Arrangeret fokuseret ophold for reservelæge: Maria Rubin. To dages ophold på KMA. Maria holdt foredrag om denguevirus i Brasilien og diagnostiske metoder. 5.-6. december 2012.

Ciofu O: Vejleder for stud.med. Louise Hougesen Bjerking's bachelor-Opgave "Brug af Eritoran tetrasodium (E5564) til behandling af LPS-induceret sepsis".
Vejleder for stud.med. Isabella Sjölander's kandidatopgave "The role of Carbapenemases among Carbapenem-resistant Gram Negative Rods in Palestine".

Vejleder for Nanna Rørbo's masterprojekt "Cystic fibrosis *P. aeruginosa* biofilms and bacteriophage treatment." (2012-2013).

Vejleder for ph.d projektet: "Adaptive mechanisms of *P. aeruginosa* during the chronic airways infection in patients with cystic fibrosis" by Karin M. Jørgensen, Division of Bacteriology, ISIM (2010-2013).

Censer ved Tina Fransson, DTU, bacheloropgave "Characterization of Infection Dynamics and Horizontal Gene Transfer in *Pseudomonas aeruginosa*."

Censor ved Mette S.R. Søndergaard, DTU, masterprojekt "Characterization of rRNA mutations in *Pseudomonas aeruginosa* in relation to macrolide resistance".

Høiby N:

Honorary editor of the 1st Chinese book about biofilms: 'Microbial Biofilm and Infection', Sichuan University, Chengdu, China 2012
European Cystic Fibrosis Society Award 2012.

Organiseret, ledet og undervist ved ESCMID-ESGB's Postgraduate Technical Workshop "Medical Biofilm Techniques 2012", 27-30. August 2012, DTU, Lyngby, Denmark. 3 lectures: 1) Høiby: Introduction to medical biofilms: antibiotic resistance and medical importance, 2) Høiby: Cystic fibrosis and biofilms: clinical and experimental scenarios, 3) Medical biofilms and antibiotic resistance mechanisms.

'Laboratoriesikkerhed og isolationsprocedurer.' A-kursus for Klinisk Mikrobiologi: Infektionssygdomme, internationale aspekter, Panuminstituttet, København, 30-8-2012.

Modtaget European Cystic Fibrosis Society Award 2012, juni 2012.

Delkursusleder og underviser ved A-kursus: Kursus i Klinisk Mikrobiologi for vordende speciallæger i tand-, mund-, og kæbekirurgi. København, 5-11 til 6-11-2012.

Bidrag til 'On-line Biofilm Course', University of Copenhagen, Sept.-Oct. 2012.

P. aeruginosa a biofilm in cystic fibrosis patients. Medical Biofilm Techniques PhD Course, Biocentrum, DTU, 15-8-2012.

Member of: Sundhedsstyrelsens arbejdsgruppe vedr. Vejledning om ordination af antibiotika, 2012.

Chairman of The ESCMID Study Group for Biofilms (ESGB).

Chairman of ESCMID Study Group for Biofilm guidelines for diagnosis and treatment of biofilm infections. Start meeting Nov. 20-22, 2012, University of Copenhagen.

Board member of Danish Cystic Fibrosis Foundation.

Member of Editorial Board of Journal of Cystic Fibrosis.

Member of Editorial Board of Future Microbiology.

Member of Editorial Board, International Journal of Antimicrobial Agents.

Member of Editorial Board, Pathogens and Disease (Formerly FEMS Immunology and Medical Microbiology).
Member of Editorial board, Lancet Respiratory Medicine,
Opponent ved Ulrich Stab Jensens PhD thesis: "Recurrence of bacteraemia. Predictors of risk and prognosis." University of Copenhagen, 28-6-2012.
External reviewer of Timothy James Kidd's PhD thesis: Diagnosis, epidemiology and population structure of *Pseudomonas aeruginosa* in cystic fibrosis. 2012, University of Queensland, Australia.
Evaluaton committee (Chairman), Professor of Clinical Parasitology, University of Copenhagen, 2012.
Member of Evaluation committee: Chairman of Department of Clinical Microbiology, Rigshospitalet, Copenhagen, Denmark, 2012.
Vejleder for ph.d. studerende.

Jensen PØ: Vejleder for cand. scient. Mette Kolpen i Ph.d. projektet: "Significance of the polymorphonuclear leukocytes in CF patients with chronic *Pseudomonas aeruginosa* lung infection" ved Klin. Mikrobiol. Afd., RH, januar 2010- december 2012.
Underviser på Online biofilm course, Københavns Universitet efterår 2012.
Underviser på "*Pseudomonas aeruginosa* biofilm infections". Medical Biofilm Technique 2012 Course. Lyngby 2012.
Underviser på: Workshop - Animal models of biofilms. 6th ASM Conference on Biofilms. Miami, USA 2012.
Reviewer for Immunology, FEMSI.

Johansen HK: Leder af roundtable "Sinus infections". 35th European Cystic Fibrosis Conference, June 6-9, Dublin, Ireland, 2012.
Underviser på "New insights into the microbiology of the CF lung: "United airways?" ESCMID Postgraduate Technical Workshop. Medical biofilm techniques 27th August 2012, Copenhagen, Denmark.
Medvejleder på Bacheloropgave for stud.med. Tine Wrønding og stud.med. Camilla Buch Tvermoseegard "Aspergillus lung manifestations in a pediatric cystic fibrosis population".
Medvejleder på bacheloropgave 20 ECTS point for ingeniør studerende Nadja Gad Kjeld og Michelle Fussing Tengberg "Studies on *Staphylococcus aureus* strains from a rat knee-prosthesis infection".
Medvejleder for læge Kasper Aanaes, ph.d. indleveret den 30. september 2012 til Kbh. Universitet: "Bacterial sinusitis can be a focus for initial lung colonisation and chronic lung infection in patients with cystic fibrosis".

Medvejleder for ph.d.-studerende Rasmus Hare Jensen.
 Projektitel: "Resistance in human pathogenic yeasts and filamentous fungi: prevalence, underlying molecular mechanisms and link to the use of azoles in humans and the environment".

Medvejleder for Ph.d.-studerende Lea Mette Madsen, DTU, Systembiologi. "*P. aeruginosa* adaptation and evolution".

Medvejleder for Ph.d.-studerende Linda Jensen, DTU, Systembiologi. "*P. aeruginosa* adaptation and evolution".

Samarbejdspartner med post. doc., Ph.d. Fatima Yousef Coronado, DTU, Systembiologi. "*P. aeruginosa* adaptation and evolution".

Samarbejdspartner med post. doc., Ph.d. Sandra Breum Andersen, DTU, Systembiologi. "*P. aeruginosa* adaptation and evolution".

Formand for DSKM.

Medlem af det landsdækkende uddannelsesudvalg i klinik mikrobiologi.

Arrangør af DSKMs årsmøde på Hotel Nyborg Strand.

Medlem af det regionale ansættelsesudvalg i klinik mikrobiologi

Konstitueret klinkchef fra 1. september 2012.

Medlem af "Scientific Committee for the European Cystic Fibrosis Conferences (ECFS)".

Faculty member i ESCMID Postgraduate Technical Workshop, Medical Biofilm Techniques 2009, Copenhagen, Denmark.

Medlem af styregruppen i RegionH's "Task-force" til halvering af nosokomielle infektioner. Desuden medlem af "Antibiotika og resistensgruppen".

Medlem af RH-LLK.

Kurtzhals J:

Formand for Dansk Selskab for Parasitologi.

Vice president World Federation of Parasitologists.

Medlem af Center for Medicinsk Parasitologi scientific board og leder af CMP's forskningsgruppe på Rigshospitalet.

Bestyrelsesmedlem, The Danish Research Network for International Health.

Affilieret bestyrelsesmedlem, Dansk Selskab for Smådyrparasitologi.

Medlem steering committee for forskningskonsortium til udvikling af sensor til påvisning af parasitter i drikkevand (Samarbejde mellem Grundfos, Unisensor, DTU-vet og CMP).

Implementing committee leder, Kwame Nkrumah University of Science and Technology Platform of Human Health som led i Danske Universiteters Building Stronger Universities initiative.

DSKM udpeget medlem af arbejdsgruppen til udarbejdelse af rejsemedicinske retningslinier i Danmark.

Fagredaktør (parasitologi), EQA News.

Editorial committee member. Tropical Parasitology.
DSKM udpeget referent for parasitologiske afsnit, Medicin.dk.
Forfatter af tropemedicinske afsnit i Medicinhåndbogen.
Hovedvejleder for ph.d. stud., cand. scient. Brian Della Valle, Københavns Universitet.
Projektvejleder for PhD studerende Efunshile M. Akinwale, Leipzig Universitet og PhD studerende Seth Amponsah, University of Ghana.
Formand for bedømmelsesudvalget vedr. ph.d. afhandling af Mette Schousboe og Andreas Andersen.
Modtaget fondsmidler fra Forskningsrådet for Udviklingsforskning (FFU). Projektstøtte til malaria vaccineprojekt i Ghana (med Lars Hviid ISIM). DKK 10.000.000.
Modtaget forndsmidler fra Vifor Pharma International: Projektstøtte til afslutning af undersøgelser af jernmetabolisme ved malaria. DKK 90.000.
Patentansøgning indleveret: Andersen JG, Enemark HL, Al-Sabi MNS, Kurtzhals J. "Detection device and method". Ansøgning, filing dato 21. dec 2012. PCT/DK2012/050497. (Patentrettigheder solgt til Grundfos).

Moser C: Deltagelse i møde mhp udbredelse af POET studiet til Norge, Oslo Rikshospitalet.
Deltager i udarbejdelsen af Diagnostisk Centers forskningsstrategi.
Deltagelse i POET møde (styregruppen) Skejby, Århus 14. maj 2012.
Underviser i antibiotika resistens. CALIS Landbohøjskolen 28. april 2012.
Underviser ved ESCMID workshop on biofilms, Copenhagen, Denmark. Animal models of Biofilm infections 2012.
Planlægger af Biofilm session under Pfizer Anti-Infectives symposium 1.-2. juni 2012.
Arrangør og underviser på "Animal models on Biofilm Infections". ASM Biofilm symposium 29. september-4. oktober, Miami, USA.
Deltagelse i "Svampeinfektioner" (arrangeret af Astellas), Pasteurinstituttet, Paris 30.-31. januar 2012.
Hovedvejleder for Ph.d stud. Kim Thomsen
Hovedvejleder for Ph.d stud. Hannah Trøstrup
Medvejleder for Ph.d stud. Maria van Gennip
Medvejleder for Ph.d stud. Steffen Eickhardt
Vejleder for bachelorprojekt for stud.med. Thea Gustafson

Tvede M: Chairman ved Cl.difficile møde på Rigshospitalet, Aud I, arrangeret for østdanske læger, 17. september 2012.

Medlem af CDI Europe, gruppe nedsat blandt key experts in Europe vedrørende Clostridium difficile infektioner. Udarbejdelse af rapport vedr. Epidemiologi, diagnostik og behandling af Cl.difficile i EU. Møder i Bruxelles, 10-4-12, 09.07.12 & 06-11-12.

Medlem af forretningsudvalget af MIBA, Den danske mikrobiologiske database.

Medlem af Repræsentantskabet af MIBA, Den danske mikrobiologiske database.

Medlem af Task-Force, Regionen, reducere af Cl.difficile nosokomielle infektioner.

Medlem af Task-Force, Regionen, reducere af nosokomielle infektioner i blod hos indlagte patienter.

Medlem af ERFA-gruppen vedrørende Clostridium difficile i Hovedstads regionen.

Medlem af IHU, infektionshygiejnisk udvalg Rigshospitalet.

Referee for APMIS.

Referee for Journal of Infectious diseases.

Referee for Plastic surgery.

F: UNDERVISNING:

- Ciofu O: Undervisning, øvelseskursus og forelæsninger, i bakteriologi forår og efterår 2012 og formulering og rettelse af eksamensopgaver til sommer og vintereksamener for medicinstuderende.
Undervisning i mikrobiologi af humanbiologistuderende.
- Høiby N: Undervist medicinske studenter i mikrobiologi på 6. bachelor semester, 2. kandidat og 6. kandidat semester.
- Johansen HK: Undervist medicinske studenter. Ekstern lektor ved Det Sundhedsvidenskabelige Fakultet, ISIM, Københavns Universitet.
- Kurtzhals J: Forelæsninger og øvelseskurser i bakteriologi og parasitologi på medicinstudiets 6., 8. og 12. Semester.
Underviser på Summer School in International Health, Københavns Universitet August 2012
Forelæsning om ledproteseinfektioner, AI-kursus, Pfizer, 1.-2. juni.
Kursusleder og forelæser, A-kursus i klinisk mikrobiologi: 'Internationale aspekter af infektionssygdomme', Panum Institutet 27.-30. August, 2012.
Forelæser og organisator, 'Workshop on diagnostic human parasitology', København, November 2012.

Undervisning i personlig sundhed ved tropeudstationering på Pre-departure course for Danida rådgivere, Udenrigsministeriet. Underviser på Forsvarets Lægekorpss' uddannelse i tropemedicin.

- Moser C: Undervist medicinske studenter. Ekstern lektor ved Det Sundhedsvidenskabelige Fakultet, ISIM, Københavns Universitet. Forelæsninger og SAU i Immunologi på Tandlægehøjskolen, KU. Undervist i forebyggelse og behandling af Biofilm infektioner. Kliniske mikrobiologer, Vejle Sygehus 10. maj 2012. Undervist i mikrobiologi, antibiotika behandling, mm. på Hæmatologisk klinik, RH, 16. maj 2012 Undervist i mikrobiologi, antibiotika behandling, mm. på Thoraxkirurgisk afdeling, RH, 8. november 2012 Undervist ved Ph.d kursus i Internationalt Biofilm kursus under ESCMID, DTU 27.-30. august 2012. Undervist ved Ph.d kursus "Medical Biofilm Techniques", DTU, 14. august 2012.
- Tvede M: Undervist ved kursus for tandlæger og kæbekirurger, "Infektioner, behandling og profylakse", KMA 7602, Rigshospitalet, 5-6 november 2012.

G: VIDEREUDDANNELSE & REJSER

- Christiansen CB: Deltaget i ISW-TBE møde i Wien, Østrig 2.-3. februar 2012. Deltaget i NorTick, Skien 8.-9. februar 2012. Deltaget i ESCV i Madrid 4.-7. september 2012. Deltaget i Styregruppemøde for ScandTick, Sahlgrenska sygehus, Göteborg 19. juni 2012. Deltaget i Kick-off møde for ScandTick. Sahlgrenska sygehus Göteborg 22-23/11-2012. Deltaget i Styregruppemøde for ScandTick. Sahlgrenska sygehus Göteborg 22-23/11-2012. Deltaget i Styregruppemøde for ScandTick København 3. september 2012. Deltaget i SNÄFF møde i Søderköping 23.-25. maj 2012. Deltaget i Informationsmøde om Interreg projekter. København 26/9-2012. Deltaget i DSKM virusdag 20/11-2012.

- Johansen HK: Deltaget i European CF Conference, Dublin, Ireland, June 6-9, 2012.
Deltaget i NACF, Orlando, Florida, U.S.A., October 11-13, 2012.
Deltaget i ECCMID, London, UK, March 31-April 3, 2012.
Deltaget i Symposium on Microbe Signaling, Organisation and Pathogenesis, Cork, Ireland, June 21-22, 2012.
Deltaget i 2-dages kursus "Færdighedskursus i antibiotika og resistens". SSI (ovl. Robert Skov og ovl. Kurt Fursted), oktober 2012.
- Kurtzhals J: Deltaget i 52nd ICAAC, San Francisco, CA, USA, september 2012.
Deltaget i "The added value of one health". Heldagsmøde, København, Danmark, oktober 2012.
Deltaget i 2 rejser til Ghana mhp universitetssamarbejde (BSU) og projektudvikling (malaria vaccineprojekt i Hohoe, Ghana).
- Moser C: Deltaget i "Diagnostic, Prevention and Treatment of Biofilm Infections". Internationalt Konsensusmøde, København 20.-22. november 2012.
Deltaget i ICAAC, San Francisco 8. -11. september 2012.
Deltaget i ASM General Meeting, San Francisco 16.-20. september 2012.
Deltaget i ECFS, Dublin 6.-9. juni 2012 (herunder bedømmer ved uddeling af poster priser – immunologi og pulmonologi).
Deltaget i ECCMID, London 30. april- 3. maj 2012.