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RESEARCHING ILLEGAL LOGGING AND DEFORESTATION

TROPICAL DEFORESTATION SUCH AS IN THE AMAZON CAN BE STUDIED WELL FROM A GREEN CRIMINOLOGICAL PERSPECTIVE. ETHNOGRAPHIC RESEARCH METHODS FORM A USEFUL WAY TO GET INSIGHT INTO THE DYNAMICS AND COMPLEXITY OF TROPICAL DEFORESTATION, WHICH OFTEN IS ILLEGAL. THIS ARTICLE GIVES AN ACCOUNT OF VARIOUS ETHNOGRAPHIC VISITS TO THE RAINFORESTS OF THE AMAZON IN THE PERIOD 2003-2014. ETHNOGRAPHIC METHODS PROVIDE INSIGHT INTO THE OVERLAP BETWEEN THE LEGAL AND ILLEGAL, THE FUNCTIONING (OR NOT) OF STATE INSTITUTIONS, THE POWER OF (CORPORATE) LOBBIES, AND WHY TROPICAL DEFORESTATION CORRELATES WITH CRIMES SUCH AS CORRUPTION AND VIOLENCE. THE USE OF ETHNOGRAPHIC METHODS IN FOREST AREAS WHERE TRUSTWORTHY STATE ACTORS AND INSTITUTIONS ARE NOT VERY PRESENT CAN ALSO PRESENT DANGER AND RAISE ETHICAL ISSUES (SUCH AS WHEN THE RESEARCHER, FOR REASONS OF SAFETY, DOES NOT PRESENT AS A CRIMINOLOGICAL RESEARCHER). HOWEVER, A LARGE ADVANTAGE OF ETHNOGRAPHIC VISITS TO TROPICAL RAINFORESTS IS THAT THEY ALLOW THE GATHERING OF LOCAL VIEWS AND VOICES, WHICH RARELY REACH THE INTERNATIONAL LEVEL. THESE LOCAL VIEWS LEAD TO INTERESTING CONTRADICTIONS AT THE INTERNATIONAL LEVEL WHERE CORPORATE VIEWS AND LOBBIES DOMINATE.

AMAZON

DEFORESTATION; DEFORESTATION CRIMES; ETHNOGRAPHIC FIELDWORK; ETHNOGRAPHIC METHODOLOGY; AMAZON RAINFOREST

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CRIMINOLOGY & PENOLOGY

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2015

LUMINESCENT TRACKS OF HIGH-ENERGY PHOTOEMITTED ELECTRONS ACCELERATED BY PLASMONIC FIELDS

THE EMISSION OF AN ELECTRON FROM A METAL NANOSTRUCTURE UNDER ILLUMINATION AND ITS SUBSEQUENT ACCELERATION IN A PLASMONIC FIELD FORMS A PLATFORM TO EXTEND THESE PHENOMENA TO DEPOSITED NANOPARTICLES, WHICH CAN BE STUDIED BY STATE-OF-THE-ART CONFOCAL MICROSCOPY COMBINED WITH FEMTOSECOND OPTICAL EXCITATION. THE EMITTED AND ACCELERATED ELECTRONS LEAVE DEFECT TRACKS IN THE IMMERSION OIL, WHICH CAN BE REVEALED BY THERMOLUMINESCENCE. THESE PHOTOGRAPHIC TRACKS ARE READ OUT WITH THE CONFOCAL MICROSCOPE AND HAVE A MAXIMUM LENGTH OF ABOUT 80 MU M, WHICH CORRESPONDS TO A KINETIC ENERGY OF ABOUT 100 KEV. THIS ENERGY IS CONSISTENT WITH THE ENERGY PROVIDED BY THE INTENSE LASER PULSE COMBINED WITH PLASMONIC LOCAL FIELD ENHANCEMENT. THE RESULTS ARE DISCUSSED WITHIN THE CONTEXT OF THE RESCATTERING MODEL BY WHICH ELECTRONS ACQUIRE MORE ENERGY. THE VISUALIZATION OF ELECTRON TRACKS ORIGINATING FROM PLASMONIC FIELD ENHANCEMENT AROUND A GOLD NANOPARTICLE OPENS A NEW WAY TO STUDY WITH CONFOCAL MICROSCOPY BOTH THE PLASMONIC PROPERTIES OF METAL NANO OBJECTS AS WELL AS HIGH ENERGY ELECTRON INTERACTION WITH MATTER.

THERMOLUMINESCENCE; PHOTOEMISSION; POLYETHYLENE; NANOPARTICLES; ENHANCEMENT

PLASMONICS; GOLD NANOPARTICLE; FEMTOSECOND EXCITATION; ELECTRON EMISSION; LUMINESCENCE; CONFOCAL MICROSCOPY

NANOPHOTONICS

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NANOSCIENCE & NANOTECHNOLOGY; MATERIALS SCIENCE, MULTIDISCIPLINARY; OPTICS; PHYSICS, APPLIED

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MARIE CURIE CAREER INTEGRATION GRANTEUROPEAN UNION (EU) [293687]

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2014

VUVUZELA MAGIC THE PRODUCTION AND CONSUMPTION OF 'AFRICAN' CULTURAL HERITAGE DURING THE FIFA 2010 WORLD CUP

DURING THE FIFA 2010 WORLD CUP IN SOUTH AFRICA, A MASS-PRODUCED, PLASTIC FOOTBALL SUPPORTERS' HORN KNOWN AS THE VUVUZELA ATTRACTED WORLDWIDE FAME AND INFAMY. THIS ARTICLE DISCUSSES THE VUVUZELA'S CONSTRUCTION AS A MATERIAL AND SONOROUS REGISTER OF 'AFRICAN' AND 'SOUTH AFRICAN' CULTURAL DISTINCTIVENESS. SPECIFICALLY, IT DISCUSSES THE PRODUCTION, CIRCULATION AND CONSUMPTION OF ITS 'AFRICAN' CULTURAL SIGNIFICANCE AS A HERITAGE FORM. IT OUTLINES THE CONTESTED POLITICAL AND IDEOLOGICAL ECONOMY - INVOLVING THE SOUTH AFRICAN STATE AND FOOTBALL OFFICIALS, FIFA, A LOCAL MANUFACTURER, INDIGENOUS GROUPS AND FOOTBALL FANS - THROUGH WHICH THE INSTRUMENT TRAVELLED. DEMONSTRATING THE INSTRUMENT'S CIRCULATION THROUGH THIS NETWORK, THE ARTICLE SHOWS HOW THE CONSTRUCTION AND AUTHENTICATION OF THE VUVUZELA MATERIALLY AND SONICALLY STAGED THE NEGOTIATION OF NOTIONS OF 'AFRICANNESS' AND 'SOUTH AFRICANNESS', AS WELL AS THEIR COMPLEX RELATIONSHIP IN POST-APARTHEID SOUTH AFRICA, DURING THE TOURNAMENT.

NA

AFRICANNESS; SOUND; MATERIALITY; AUTHENTICITY; CULTURAL HERITAGE; FOOTBALL; SOUTH AFRICA

AFRICAN DIASPORA

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2014

SOCIAL CONNECTEDNESS: A GROWING CHALLENGE FOR SUSTAINABLE CITIES

THIS PAPER EXPLORES IN A HYPOTHETICAL MANNER THE MEANING OF INCREASING URBANIZATION AND MODERNIZATION FOR PEOPLE BELONGING TO A MORE INDIVIDUALISTIC-ORIENTED CULTURE (THE NETHERLANDS) AND MORE COLLECTIVISTIC-ORIENTED CULTURE (CHINA). BOTH SOCIETIES DIFFER IN DEGREE OF URBANIZATION AND MODERNIZATION AND AS A CONSEQUENCE ARE EXPECTED TO SHOW DIFFERENCES IN THE MEANING OF RELATIONS AND EXPERIENCES WITH CONTACTS WITH UNFAMILIAR OTHERS IN URBAN ENVIRONMENTS. POSITIONING AND BOUNDARY-SETTING STRATEGIES TO MANAGE RELATIONS WITH SOCIAL ENVIRONMENTS AND TO REGULATE EXPERIENCED STRESS AND WELL-BEING IN CITIES WILL BE DISCUSSED.

NA

MODERNIZATION; URBANIZATION; SOCIAL RELATIONS; THE NETHERLANDS; CHINA

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2005

PHARMACEUTICAL DEVELOPMENT OF A PARENTERAL LYOPHILISED DOSAGE FORM FOR THE NOVEL ANTICANCER AGENT C1311

C1311(5-[[2-(DIETHYLAMINO)ETHYL]AMINO]-8-HYDROXYIMIDAZO [4,5,1-DE]-ACRIDIN-6-ONE-DIHYDROCHLORIDETRIHYDRATE) IS THE LEAD COMPOUND FROM THE GROUP OF IMIDAZOACRIDINONES, A NOVEL GROUP OF RATIONALLY DESIGNED ANTICANCER AGENTS. C 1311 SHOWS SIGNIFICANT CYTOTOXIC ACTIVITY IN VITRO AND IN VIVO TOWARD A RANGE OF COLON TUMOURS. THE AIM OF THE PRESENT STUDY IS TO DEVELOP A STERILE AND STABLE, INJECTABLE PHARMACEUTICAL PRODUCT FOR C 1311 TO BE USED IN PHASE I CLINICAL TRIALS. C1311 DRUG SUBSTANCE WAS STRUCTURALLY AND ANALYTICALLY CHARACTERISED BY CHROMATOGRAPHIC, SPECTROMETRIC, AND DIFFRACTION TECHNIQUES. C1311 WAS FREELY SOLUBLE IN WATER, AND ITS STABILITY WAS INVESTIGATED IN SEVERAL LIQUID AND LYOPHILISED FORMULATIONS WITH OR WITHOUT THE USE OF BUFFERING, TONICITY, AND BULKING AGENTS. THE FINAL PRODUCT, CONTAINING 100 MG/VIAL C 1311 (AS ANHYDROUS FREE BASE), WAS STABLE FOR AT LEAST 3 MONTHS UNDER ACCELERATED STORAGE CONDITIONS AND AT THE DESIGNATED LONG-TERM STORAGE CONDITION OF 5 +/- 3 DEGREES C IN THE DARK. THE DRUG IS CURRENTLY USED IN PHASE I CLINICAL TRIALS.

ANTINEOPLASTIC AGENTS; RUBBER STOPPERS; IMIDAZOACRIDINONES; MANNITOL; CRYSTALLIZATION; PRODUCTS; MOISTURE; STATE; DNA

C1311; FORMULATION; LYOPHILISATION; STRUCTURAL CHARACTERISATION; ANALYTICAL CHARACTERISATION

PDA JOURNAL OF PHARMACEUTICAL SCIENCE AND TECHNOLOGY

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ENGINEERING, BIOMEDICAL; PHARMACOLOGY & PHARMACY

ENGINEERING; PHARMACOLOGY & PHARMACY

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NETHERLANDS#NETHERLANDS#CANADA#MA USA

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2006

THE CLINICAL EFFICACY AND COST EFFECTIVENESS OF THE VACUUM-ASSISTED CLOSURE TECHNIQUE IN THE MANAGEMENT OF ACUTE AND CHRONIC WOUNDS: A RANDOMIZED CONTROLLED TRIAL

BACKGROUND: VACUUM-ASSISTED CLOSURE THERAPY IS A RELATIVELY NEW CONCEPT DESCRIBED IN THE LITERATURE THAT INCREASES WOUND-HEALING CAPACITY. THE AUTHORS AIMED TO INVESTIGATE THE EFFECT OF VACUUM-ASSISTED CLOSURE THERAPY ON WOUND HEALING, GRANULATION TISSUE FORMATION, BACTERIAL CLEARANCE, PAIN, TIME INVOLVEMENT OF THE STAFF, AND TOTAL COSTS IN ALL TYPES OF WOUNDS IN COMPARISON WITH MODERN WOUND DRESSINGS. METHODS: SIXTY-FIVE PATIENTS WITH A CHRONIC OR ACUTE WOUND WERE RANDOMIZED TO INITIAL TREATMENT WITH VACUUM-ASSISTED CLOSURE OR MODERN DRESSINGS. THE AUTHORS' PRIMARY ENDPOINT WAS A GRANULATED WOUND OR A WOUND READY FOR SKIN GRAFTING OR HEALING BY SECONDARY INTENTION. RESULTS: THE TIME TO THE PRIMARY ENDPOINT WITH VACUUM-ASSISTED CLOSURE THERAPY WAS NOT SIGNIFICANTLY SHORTER, EXCEPT FOR PATIENTS WITH CARDIOVASCULAR DISEASE AND/OR DIABETICS. VACUUM-ASSISTED CLOSURE THERAPY DID NOT RESULT IN SIGNIFICANTLY FASTER GRANULATION OR WOUND SURFACE REDUCTION OR BETTER BACTERIAL CLEARANCE, BUT PATIENT COMFORT WAS AN IMPORTANT ADVANTAGE. TIME INVOLVEMENT AND COSTS OF NURSING STAFF WERE SIGNIFICANTLY LOWER FOR THE VACUUM-ASSISTED CLOSURE THERAPY, BUT OVERALL COSTS WERE SIMILAR FOR BOTH GROUPS. CONCLUSIONS: WITH VACUUM-ASSISTED CLOSURE THERAPY, WOUND HEALING IS AT LEAST AS FAST AS WITH MODERN WOUND DRESSINGS. ESPECIALLY CARDIOVASCULAR AND DIABETIC PATIENTS BENEFIT FROM THIS THERAPY. THE TOTAL COSTS OF VACUUM-ASSISTED CLOSURE ARE COMPARABLE TO THOSE OF MODERN WOUND DRESSINGS, BUT THE ADVANTAGE IS ITS COMFORT FOR PATIENTS AND NURSING STAFF.

SUBATMOSPHERIC PRESSURE; SURGICAL-PROCEDURES; NEGATIVE-PRESSURE; THERAPY; EXPERIENCE; SYSTEM

NA

PLASTIC AND RECONSTRUCTIVE SURGERY

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MORALITIES IN FOOD AND HEALTH RESEARCH

SOCIETY HAS IMPOSED STRICT RULES ABOUT WHAT CONSTITUTES A 'GOOD' OR A 'BAD' FOOD AND 'RIGHT' OR 'WRONG' EATING BEHAVIOUR AT LEAST SINCE ANTIQUITY. TODAY, THE MORAL DISCOURSE OF WHAT WE SHOULD AND SHOULD NOT EAT IS PERHAPS STRONGER THAN EVER, AND IT INFORMS CONSUMERS, RESEARCHERS AND POLICY- MAKERS ABOUT WHAT WE ALL SHOULD CONSUME, RESEARCH AND REGULATE. WE PROPOSE FOUR TYPES OF MORALITIES, UNDERLYING SETS OF MORAL ASSUMPTIONS, THAT ORIENT THE CONTEMPORARY DISCOURSES OF FOOD AND HEALTH: THE 'GOOD' AND 'BAD' NATURE OF FOOD ITEMS, THE VIRTUE OF SELF- CONTROL AND MODERATION, THE MANAGEMENT OF BODY SIZE AND THE ACTIONS OF MARKET AGENTS. WE DEMONSTRATE HOW THESE MORALITIES INFLUENCE CONSUMER BEHAVIOUR AS WELL AS TRANSFORMATIVE RESEARCH OF FOOD AND HEALTH AND DEVELOP A CRITICAL DISCUSSION OF THE IMPACT OF THE UNDERLYING MORALITY IN EACH DOMAIN. WE CONCLUDE BY PROVIDING A FEW GUIDELINES FOR CHANGES IN RESEARCH QUESTIONS, DESIGNS AND METHODOLOGIES FOR FUTURE RESEARCH AND CALL FOR A GENERAL REFLECTION ON THE CONSEQUENCES OF THE UNCOVERED MORALITIES IN RESEARCH ON FOOD AND HEALTH TOWARDS AN INCLUSIVE VIEW OF FOOD WELL- BEING.

SELF-CONTROL; PUBLIC-HEALTH; BODY-IMAGE; SIZE PERCEPTIONS; PORTION SIZES; CONSUMPTION; OBESITY; FAT; CHOICE; CONSUMERS

FOOD; HEALTH; MORALITY; GOVERNMENTALITY; LIFE QUALITY

JOURNAL OF MARKETING MANAGEMENT

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BUSINESS; MANAGEMENT

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TRIM46 CONTROLS NEURONAL POLARITY AND AXON SPECIFICATION BY DRIVING THE FORMATION OF PARALLEL MICROTUBULE ARRAYS

AXON FORMATION, THE INITIAL STEP IN ESTABLISHING NEURONAL POLARITY, CRITICALLY DEPENDS ON LOCAL MICROTUBULE REORGANIZATION AND IS CHARACTERIZED BY THE FORMATION OF PARALLEL MICROTUBULE BUNDLES. HOW UNIFORM MICROTUBULE POLARITY IS ACHIEVED DURING AXONAL DEVELOPMENT REMAINS AN OUTSTANDING QUESTION. HERE, WE SHOW THAT THE TRIPARTITE MOTIF CONTAINING (TRIM) PROTEIN TRIM46 PLAYS AN INSTRUCTIVE ROLE IN THE INITIAL POLARIZATION OF NEURONAL CELLS. TRIM46 IS SPECIFICALLY LOCALIZED TO THE NEWLY SPECIFIED AXON AND, AT LATER STAGES, PARTLY OVERLAPS WITH THE AXON INITIAL SEGMENT (AIS). TRIM46 SPECIFICALLY FORMS CLOSELY SPACED PARALLEL MICROTUBULE BUNDLES ORIENTED WITH THEIR PLUS-END OUT. WITHOUT TRIM46, ALL NEURITES HAVE A DENDRITE-LIKE MIXED MICROTUBULE ORGANIZATION RESULTING IN TAU MISSORTING AND ALTERED CARGO TRAFFICKING. BY FORMING UNIFORM MICROTUBULE BUNDLES IN THE AXON, TRIM46 IS REQUIRED FOR NEURONAL POLARITY AND AXON SPECIFICATION IN VITRO AND IN VIVO. THUS, TRIM46 DEFINES A UNIQUE AXONAL CYTOSKELETAL COMPARTMENT FOR REGULATING MICROTUBULE ORGANIZATION DURING NEURONAL DEVELOPMENT.

E3 UBIQUITIN LIGASES; END-BINDING-PROTEIN; INITIAL SEGMENT; DROSOPHILA NEURONS; TRANSPORT; MOTOR; MAINTENANCE; DYNAMICS; DENDRITE; GROWTH

NA

NEURON

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NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO-ALW-VICI)NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO); FOUNDATION FOR FUNDAMENTAL RESEARCH ON MATTER ((FOM), NWO; NETHERLANDS ORGANIZATION FOR HEALTH RESEARCH AND DEVELOPMENT (ZONMW-TOP)NETHERLANDS ORGANIZATION FOR HEALTH RESEARCH AND DEVELOPMENT; EUROPEAN RESEARCH COUNCIL (ERC)EUROPEAN RESEARCH COUNCIL (ERC); CYTTRON II [FES0908]; MARIE CURIE INITIAL TRAINING NETWORK (MC-ITN)EUROPEAN UNION (EU); CTMM, THE CENTER FOR TRANSLATIONAL MOLECULAR MEDICINE, PROJECT EMINENCE [01C-204]

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2014

INTER-SYSTEM TIME LAG DUE TO CLOUDS IN AN URBAN PV ENSEMBLE

THIS PAPER PRESENTS A SHORT TERM (< 1 HOUR) IN SITU GLOBAL HORIZONTAL IRRADIANCE (GHI) FORECASTING METHOD WITHOUT THE USE OF EXTERNAL WEATHER DATA. THIS FORECASTING METHOD IS BASED ON THE RELATIVE TEMPORAL SHIFT (TIME LAG) OF MEASURED GHI, OR GHI-FLUCTUATIONS TIME SERIES OF PAIRS OF PHOTOVOLTAIC (PV) SYSTEMS THAT ARE INFLUENCED BY THE SAME CLOUD(SYSTEM) SEQUENTIALLY. ADDITIONALLY, IN COMBINATION WITH MEASURED WEATHER DATA AN ESTIMATION OF CLOUD HEIGHT CAN BE MADE. THE CLOUD HEIGHT CAN PROVE USEFUL WHEN WHOLE SKY CLOUD IMAGES ARE INTERPRETED FOR FORECASTING PURPOSES.

NA

SOLAR PHOTOVOLTAICS; PV OUTPUT; VARIABILITY; TIME LAG; FORECASTING

2014 IEEE 40TH PHOTOVOLTAIC SPECIALIST CONFERENCE (PVSC)

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ENERGY & FUELS; ENGINEERING, ELECTRICAL & ELECTRONIC

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ELSINGA B., 2014, RAMP RATE VARI UNPUB##FARAGHER R, 2012, IEEE SIGNAL PROC MAG, V29, P128, DOI 10.1109/MSP.2012.2203621##HOFF TE, 2012, SOL ENERGY, V86, P2177, DOI 10.1016/J.SOLENER.2011.11.005##TWIDELL WEIR, 2006, RENEWABLE ENERGY RES

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INTERCOUNTRY ADOPTION, POLICIES, PRACTICES, AND OUTCOMES

NA

NA

NA

ADOPTION QUARTERLY

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SOCIAL WORK

SOCIAL WORK

ALTSTEIN H., 1991, INTERCOUNTRY ADOPTIO##BOS P., 2007, THESIS##GIBBONS JL, 2013, INTERCOUNTRY ADOPTIO##HIBBS E. D., 1991, ADOPTION INT PERSPEC##HOKSBERGEN R. A. C., 2012, KINDEREN NIET KONDEN##HOKSBERGEN RA, 1986, ADOPTION WORLDWIDE P##MARRE DIANE, 2009, INT ADOPTION GLOBAL##SELMAN PETER, 2000, INTERCOUNTRY ADOPTIO

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INTER-SYSTEM TIME LAG DUE TO CLOUDS IN AN URBAN PV ENSEMBLE

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2005

AN ASSESSMENT OF DERMAL EXPOSURE TO SEMI-SYNTHETIC METAL WORKING FLUIDS BY DIFFERENT METHODS TO GROUP WORKERS FOR AN EPIDEMIOLOGICAL STUDY ON DERMATITIS

BACKGROUND: ASSESSMENT OF EXPOSURE ASSESSMENT TO METAL WORKING FLUIDS (MWF) HAS ALMOST EXCLUSIVELY FOCUSED ON INHALATION EXPOSURE. AIMS: TO ASSESS LEVELS OF, AND FACTORS AFFECTING, DERMAL AND INHALATION EXPOSURE TO SEMI-SYNTHETIC MWF, AND TO IDENTIFY SUITABLE DERMAL EXPOSURE GROUPING SCHEMES AMONG METAL WORKERS FOR AN EPIDEMIOLOGICAL SURVEY ON DERMATITIS OF HANDS, FOREARMS, AND HEAD. METHODS: A CROSS-SECTIONAL SURVEY WAS CONDUCTED IN FOUR METAL WORKING MACHINING DEPARTMENTS OF A TRUCK MANUFACTURING PLANT, ESTIMATING DERMAL AND INHALATION EXPOSURE LEVELS TO SEMI-SYNTHETIC METAL WORKING FLUIDS (SMWF) IN MACHINE OPERATORS. DERMAL EXPOSURE LEVELS TO SMWF WERE ESTIMATED BY THREE DIFFERENT METHODS FOR DERMAL EXPOSURE ASSESSMENT (VITAE, SURROGATE SKIN PAD METHOD, AND A SEMI-QUANTITATIVE DERMAL EXPOSURE ASSESSMENT METHOD (DREAM)). RESULTS: THE IDENTIFIED FACTORS AFFECTING DERMAL EXPOSURE WERE SIMILAR FOR THE THREE METHODS, ALTHOUGH DIFFERENCES WERE FOUND FOR ESTIMATED VARIABILITY IN DERMAL EXPOSURE LEVELS BETWEEN GROUPS, WITHIN GROUPS (AMONG WORKERS), AND FROM DAY TO DAY. WITH THE VITAE METHOD DIFFERENCES IN EXPOSURE LEVELS WERE DETECTED BETWEEN WORKERS THAT WERE NOT DETECTED WITH THE SURROGATE SKIN PAD METHOD, AND ONLY PARTLY WITH THE DREAM METHOD. CONCLUSIONS: CONSIDERING THE ADDITIONAL EFFORT AND COSTS THAT USE OF THE VITAE METHOD ENTAILED, THE OBSERVATIONAL SEMI-QUANTITATIVE DREAM METHOD APPEARED TO BE MORE EFFICIENT FOR GROUPING OF DERMAL EXPOSURE LEVELS FOR THE EPIDEMIOLOGICAL STUDY ON DERMATITIS.

VIDEO IMAGING TECHNIQUE; METALWORKING FLUIDS; SEMIQUANTITATIVE METHOD; AUTOMOBILE WORKERS; RESPIRATORY HEALTH; VARIABILITY; DERMATOSES; MORTALITY; AEROSOLS

NA

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2014

IDENTIFICATION OF A NOVELL KISSPEPTIN WITH HIGH GONADOTROPHIN STIMULATORY ACTIVITY IN THE DOG

KISSPEPTIN (KISS1) AND ITS RECEPTOR (KISS1R) ARE ESSENTIAL FOR NORMAL REPRODUCTIVE FUNCTION IN MANY SPECIES, BUT THE ROLE OF KISS1/KISS1R SIGNALLING IN THE DOG HAS NOT YET BEEN ELUCIDATED. THE AIMS OF THIS STUDY WERE TO IDENTIFY THE CANINE KISS1 AND KISS 1 R GENES AND TO DETERMINE GONADOTROPHIN AND OESTRADIOL STIMULATORY ACTIVITY OF KP-10, THE SHORTEST BIOLOGICALLY ACTIVE FORM OF KISS1. CANINE KISSI AND KISS1R GENES WERE LOCALIZED BY COMPARING THE REFERENCE DOG GENOME WITH RELEVANT HUMAN CDNA SEQUENCES, USING BLASTN SOFTWARE. THE AMINO ACID SEQUENCE OF CANINE KP-10 (YNWNVFGLRY) DIFFERS AT TWO POSITIONS FROM HUMAN KP-10 (YNWNSFGLRF). A SINGLE BOLUS OF CANINE KP-10 WAS ADMINISTERED INTRAVENOUSLY TO ANOESTROUS BEAGLE BITCHES IN DOSAGES OF 0, 0.1, 0.2, 0.3, 0.5, 1, 5, 10, AND 30 PG/KG. BLOOD SAMPLES WERE COLLECTED BEFORE AND AFTER CANINE KP-10 ADMINISTRATION FOR THE MEASUREMENT OF PLASMA LUTEINIZING HORMONE (LH, ALL DOSES), FOLLICLE-STIMULATING HORMONE (FSH) AND OESTRADIOL (1-30 MU G/KG). FROM 0.2 MU G/ KG ONWARDS, CANINE KP-10 RESULTED IN A RAPID AND ROBUST RISE IN PLASMA LH CONCENTRATION (MAX. AT 10 MIN). KP-10 ALSO RESULTED IN A RAPID AND ROBUST RISE IN PLASMA FSH CONCENTRATION (MAX. AT 10-20 MIN). PLASMA OESTRADIOL CONCENTRATION INCREASED SIGNIFICANTLY AFTER DOSAGES OF 1, 5, AND 10 MU G/KG AND REACHED A MAXIMUM AT 60-90 MIN. IN CONCLUSION, CANINE KP10 IS A POTENT KISSPEPTIN WHICH ELICITS ROBUST GONADOTROPHIN AND OESTRADIOL RESPONSES IN ANOESTROUS BITCHES, SUGGESTING THAT CANINE KISS1/KISS1R ARE COGENT TARGETS FOR MODULATING REPRODUCTION IN DOGS. (C) 2014 S. KARGER AG, BASEL

ESTROGEN POSITIVE FEEDBACK; PITUITARY-GONADAL AXIS; LUTEINIZING-HORMONE; HYPOGONADOTROPIC HYPOGONADISM; OVARIECTOMIZED BITCHES; SEXUAL-BEHAVIOR; RECEPTOR GPR54; BEAGLE BITCH; SECRETION; PROGESTERONE

LUTEINIZING HORMONE; FOLLICLE-STIMULATING HORMONE; KISS1; KISS1R; GPR54; CANINE; BITCH; REPRODUCTION

NEUROENDOCRINOLOGY

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ENDOCRINOLOGY & METABOLISM; NEUROSCIENCES

ENDOCRINOLOGY & METABOLISM; NEUROSCIENCES & NEUROLOGY

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MEDICAL RESEARCH COUNCILMEDICAL RESEARCH COUNCIL UK (MRC); NATIONAL RESEARCH FOUNDATION; TECHNOLOGY INNOVATION AGENCY; UNIVERSITY OF PRETORIA

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2015

ISLAMIC GATHERINGS: EXPERIENCES OF DISCRIMINATION AND RELIGIOUS AFFIRMATION ACROSS ESTABLISHED AND NEW IMMIGRANT COMMUNITIES

TO WHAT EXTENT ARE PERCEPTIONS OF DISCRIMINATION ASSOCIATED WITH RELIGIOUS AFFIRMATION AMONG MUSLIM MINORITIES IN THE NETHERLANDS? DRAWING ON RECENT NATIONALLY REPRESENTATIVE SURVEYS AMONG SELF-IDENTIFIED MUSLIMS FROM FIVE ETHNIC GROUPS IN THE NETHERLANDS, WE TEST BOUNDARY CONDITIONS OF REACTIVE RELIGIOSITY. OUR FINDINGS INDICATE THAT FOR MUSLIMS FROM ESTABLISHED IMMIGRANT GROUPS, PERCEPTIONS OF DISCRIMINATION ARE ASSOCIATED WITH MORE FREQUENT RELIGIOUS ATTENDANCE, BUT THAT THIS IS NOT THE CASE FOR MUSLIMS FROM SMALLER, LESS ESTABLISHED ETHNIC COMMUNITIES. FINDINGS ARE INTERPRETED USING A BOUNDARY FRAMEWORK.

ETHNIC IDENTIFICATION; DUTCH MUSLIMS; IDENTITY; TURKISH; BOUNDARIES; 2ND-GENERATION; NETHERLANDS

DISCRIMINATION; MUSLIM; IDENTITY; RELIGIOUS PRACTICE; BOUNDARY FORMATION; REACTIVE RELIGIOSITY

ETHNIC AND RACIAL STUDIES

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2015

DIGITALLY PRODUCED JUDGEMENTS IN MODERN COURT PROCEEDINGS

THIS PAPER SHOWS AN IMPROVEMENT OF LEGAL DECISION-MAKING VIA DIGITALLY PRODUCED VERDICTS. WE INVESTIGATE THE USE OF ARTIFICIAL INTELLIGENCE (AI) IN RELATION TO RENDERING ARBITRATIONAL VERDICTS. THE DATA WAS PROVIDED BY E-COURT, THE FIRST PRIVATE ONLINE COURT OF THE NETHERLANDS. IN OUR SURVEY THE STANDARD DEBT COLLECTION PROCEEDINGS UNDER DUTCH CIVIL AND PROCEDURAL LAW ARE USED AS A CASE STUDY. THE INTRODUCTION OF THE SUBJECT MATTER IS FOLLOWED BY AN OVERVIEW OF THE KEY-PARAMETERS REQUIRED BY E-COURT FOR RENDERING A VERDICT IN DEFAULT CASES. THE REASONING METHODOLOGIES OF INTELLIGENT SYSTEMS IN THE LEGAL DOMAIN ARE THEN DISCUSSED. FOLLOWING THIS DISCUSSION, WE WILL ANALYZE THE NATURE OF THE E-COURT SYSTEM TO UNDERSTAND HOW IT BENEFITS FROM THE VARIOUS TYPES OF INTELLIGENT SYSTEMS. SUBSEQUENTLY, WE WILL DISCUSS THE RATIONALE BEHIND THE CHOICES MADE, THE LEGAL IMPLICATIONS AND THE HANDLING PROCESS WITHIN THE PUBLIC COURTS. WE REVIEW IN BRIEF SOME EXPECTATIONS ABOUT THE FURTHER DEVELOPMENTS AND COMPARE THEM WITH THE CURRENT BEST PRACTICES AT THE DUTCH E-COURT. OUR CONTRIBUTION LIES ALSO IN THE INVESTIGATION OF THE CHARACTERISTICS OF THE E-COURT SYSTEM FOR RENDERING DEFAULT VERDICTS IN DEBT COLLECTION PROCEEDINGS. IN OUR CONCLUSION WE WILL CONSIDER TO WHAT EXTENT INTELLIGENT SYSTEMS WILL BE USED IN THE CONTEMPORARY DIGITAL COURT HOUSES.

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INTERNATIONAL JOURNAL FOR DIGITAL SOCIETY

NAKAD-WESTSTRATE, HWR##JONGBLOED, AW##VAN DEN HERIK, HJ##SALEM, ABM

[NAKAD-WESTSTRATE, H. W. R. (HENRIETTE)] E COURT, MOERSBERGSELAAN, NETHERLANDS. [JONGBLOED, A. W. (TON)] UNIV UTRECHT, FAC LAW ECON GOVT & ORG, MOLENGRAAFF INST CIVIL LAW, UTRECHT, NETHERLANDS. [VAN DEN HERIK, H. J. (JAAP)] LEIDEN UNIV, CTR LAW INFORMAT SOC, LEIDEN, NETHERLANDS. [SALEM, ABDEL-BADEEH M.] AIN SHAMS UNIV, FAC COMP & INFORMAT SCI, CAIRO, EGYPT.

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2014

GLACIER DYNAMICS AT HELHEIM AND KANGERDLUGSSUAQ GLACIERS, SOUTHEAST GREENLAND, SINCE THE LITTLE ICE AGE

OBSERVATIONS OVER THE PAST DECADE SHOW SIGNIFICANT ICE LOSS ASSOCIATED WITH THE SPEED-UP OF GLACIERS IN SOUTHEAST GREENLAND FROM 2003, FOLLOWED BY A DECELERATION FROM 2006. THESE SHORT-TERM, EPISODIC, DYNAMIC PERTURBATIONS HAVE A MAJOR IMPACT ON THE MASS BALANCE ON THE DECADAL SCALE. TO IMPROVE THE PROJECTION OF FUTURE SEA LEVEL RISE, A LONG-TERM DATA RECORD THAT REVEALS THE MASS BALANCE BEYOND SUCH EPISODIC EVENTS IS REQUIRED. HERE, WE EXTEND THE OBSERVATIONAL RECORD OF MARGINAL THINNING OF HELHEIM AND KANGERDLUGSSUAQ GLACIERS FROM 10 TO MORE THAN 80 YEARS. WE SHOW THAT, ALTHOUGH THE FRONTAL PORTION OF HELHEIM GLACIER THINNED BY MORE THAN 100M BETWEEN 2003 AND 2006, IT THICKENED BY MORE THAN 50M DURING THE PREVIOUS TWO DECADES. IN CONTRAST, KANGERDLUGSSUAQ GLACIER UNDERWENT MINOR THINNING OF 40-50M FROM 1981 TO 1998 AND MAJOR THINNING OF MORE THAN 100M AFTER 2003. EXTENDING THE RECORD BACK TO THE END OF THE LITTLE ICE AGE (PRIOR TO 1930) SHOWS NO THINNING OF HELHEIM GLACIER FROM ITS MAXIMUM EXTENT DURING THE LITTLE ICE AGE TO 1981, WHILE KANGERDLUGSSUAQ GLACIER UNDERWENT SUBSTANTIAL THINNING OF 230 TO 265 M. COMPARISON OF SUB-SURFACE WATER TEMPERATURE ANOMALIES AND VARIATIONS IN AIR TEMPERATURE TO RECORDS OF THICKNESS AND VELOCITY CHANGE SUGGEST THAT BOTH GLACIERS ARE HIGHLY SENSITIVE TO SHORT-TERM ATMOSPHERIC AND OCEAN FORCING, AND RESPOND VERY QUICKLY TO SMALL FLUCTUATIONS. ON CENTURY TIMESCALES, HOWEVER, MULTIPLE EXTERNAL PARAMETERS (E. G. OUTLET GLACIER SHAPE) MAY DOMINATE THE MASS CHANGE. THESE FINDINGS SUGGEST THAT SPECIAL CARE MUST BE TAKEN IN THE PROJECTION OF FUTURE DYNAMIC ICE LOSS.

SEA-LEVEL RISE; OUTLET GLACIERS; WEST GREENLAND; MASS-LOSS; EAST GREENLAND; JAKOBSHAVN ISBRAE; SHEET; CLIMATE; ACCELERATION; RETREAT

NA

CRYOSPHERE

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GEOGRAPHY, PHYSICAL; GEOSCIENCES, MULTIDISCIPLINARY

PHYSICAL GEOGRAPHY; GEOLOGY

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2020-11-27

KVUG; DANISH COUNCIL FOR INDEPENDENT RESEARCH - NATURE AND UNIVERSEDET FRIE FORSKNINGSRAD (DFF); NASANATIONAL AERONAUTICS & SPACE ADMINISTRATION (NASA) [NNX13AK27G]

TECH UNIV DENMARK#UNIV COPENHAGEN#SWANSEA UNIV#UNIV ALASKA#GEOL SURVEY DENMARK GREENLAND#UNIV UTRECHT#UNIV LUXEMBOURG#UNIV COPENHAGEN

DENMARK#DENMARK#WALES#AK USA#DENMARK#NETHERLANDS#LUXEMBOURG#DENMARK

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WOS:000219424200010

2014

LATIN AMERICA: SECURITY AND DEFENCE COOPERATION IN A GLOBAL CHANGE CONTEXT

THIS YEAR 2014 WE COMMEMORATE THE 1ST CENTURY OF THE FIRST WORLD WAR. RECENT EVENTS IN EUROPE SUGGEST THAT THE MOST IMPORTANT LESSONS THAT THIS WAR LEFT HAVEN'T BEEN LEARNED, PARTICULARLY IN REGARD TO MULTILATERALISM, CONFLICT RESOLUTION, TREATMENT OF TERRORISM AND FORCED MIGRATION. THIS OCCURS IN A CONTEXT OF GLOBAL CHANGE THAT AFFECTS THE PATHS OF THE INTERNATIONAL SYSTEM. LATIN AMERICA AND THE CARIBBEAN CURRENTLY CONTRIBUTE SUBSTANTIVELY TO GLOBAL PEACE AND STABILITY.

NA

LATIN AMERICA; SECURITY AND DEFENCE; MULTILATERALISM; GLOBAL CHANGES

ARAUCARIA-REVISTA IBEROAMERICANA DE FILOSOIFIA POLITICA Y HUMANIDADES

ARAVENA, FR

[ROJAS ARAVENA, FRANCISCO] UNIV PEACE, CIUDAD COLON, COSTA RICA. [ROJAS ARAVENA, FRANCISCO] UNIV UTRECHT, CIENCIAS POLIT, UTRECHT, NETHERLANDS.

PHILOSOPHY

PHILOSOPHY

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2020-11-27

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UNIV PEACE#UNIV UTRECHT

COSTA RICA#NETHERLANDS

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WOS:000455938500015

2014

LAZY STATELESS INCREMENTAL EVALUATION MACHINERY FOR ATTRIBUTE GRAMMARS

MANY COMPUTER PROGRAMS WORK WITH DATA THAT CHANGES OVER TIME. COMPUTATIONS DONE OVER SUCH DATA USUALLY ARE REPEATED COMPLETELY AFTER A CHANGE IN THE DATA. FOR COMPLEX COMPUTATIONS SUCH REPETITIVE RECOMPUTATION CAN BECOME TOO INEFFICIENT. WHEN THESE RECOMPUTATIONS TAKE PLACE ON DATA WHICH HAS ONLY CHANGED SLIGHTLY, IT OFTEN IS POSSIBLE TO REFORMULATE THE COMPUTATION TO AN INCREMENTAL VERSION WHICH REUSES THE RESULT OF THE COMPUTATION ON PREVIOUS DATA. SUCH A SITUATION TYPICALLY OCCURS IN COMPILERS AND EDITORS FOR STRUCTURED DATA (LIKE A PROGRAM) WHERE PROGRAM ANALYSES AND TRANSFORMATIONS (FOR EXAMPLE ERROR CHECKING) ARE DONE WHILE EDITING. ALTHOUGH REWRITING TO INCREMENTAL VERSIONS THUS OFFERS A SOLUTION TO THIS PROBLEM, A MANUAL REWRITE OF AN ALREADY COMPLEX COMPUTATION TO ITS INCREMENTAL COUNTERPART IS TEDIOUS, ERROR PRONE, AND INHIBITS FURTHER DEVELOPMENT OF THE ORIGINAL COMPUTATION. WE THEREFORE INTEND TO GENERATE SUCH INCREMENTAL COUNTERPARTS (SEMI) AUTOMATICALLY BY FOCUSING ON COMPUTATIONS EXPRESSED USING ATTRIBUTE GRAMMARS (AGS). IN THIS PAPER WE DO GROUNDWORK FOR THIS GOAL AND DEVELOP MACHINERY FOR INCREMENTAL ATTRIBUTE GRAMMAR EVALUATION BASED ON CHANGE PROPAGATION AND PURE FUNCTIONS. WE USE PRETTY PRINTING WITH FREE VARIABLE ANNOTATION TO EXPLAIN OUR TECHNIQUES. FURTHERMORE, OUR TECHNIQUES ALSO EXPOSE RULES OF CONDUCT FOR A PROGRAMMER DESIRING INCREMENTALITY: THE AUTOMATIC TRANSLATION OF CODE TO AN INCREMENTAL VERSION DOES NOT ALWAYS DIRECTLY RESULT IN EFFICIENCY IMPROVEMENTS BECAUSE CODE OFTEN IS WRITTEN IN A STYLE UNSUITABLE FOR AUTOMATIC INCREMENTALIZATION. WE SHOW SOME COMMON CASES IN WHICH (SMALL) CODE CHANGES FACILITATING INCREMENTALITY ARE REQUIRED. WE EVALUATE THE EFFECTIVENESS OF THE OVERALL APPROACH USING A SIMPLE BENCH-MARK FOR THE EXAMPLE, AND A MORE EXTENSIVE BENCHMARK BASED ON CONSTRAINT-BASED TYPE INFERENCE IMPLEMENTED WITH AGS.

NA

INCREMENTAL EVALUATION; ATTRIBUTE GRAMMARS; CHANGE PROPAGATION; PROGRAM TRANSFORMATION; TYPE INFERENCE

PEPM '14: PROCEEDINGS OF THE ACM SIGPLAN WORKSHOP ON PARTIAL EVALUATION AND PROGRAM MANIPULATION

BRANSEN, J##DIJKSTRA, A##SWIERSTRA, SD

[BRANSEN, JEROEN; DIJKSTRA, ATZE; SWIERSTRA, S. DOAITSE] UNIV UTRECHT, UTRECHT, NETHERLANDS.

COMPUTER SCIENCE, SOFTWARE ENGINEERING; COMPUTER SCIENCE, THEORY & METHODS

COMPUTER SCIENCE

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2020-11-27

NA

UNIV UTRECHT

NETHERLANDS

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J

WOS:000240407400057

2006

A MULTINATIONAL CROSS-SECTIONAL DATABASE TO ASSESS CLINICAL STATUS OF PATIENTS WITH RHEUMATOID ARTHRITIS (QUEST-RA)

NA

NA

NA

SCANDINAVIAN JOURNAL OF RHEUMATOLOGY

SOKKA, T##MAKINEN, H##HETLAND, ML##VERSTAPPEN, SMM##TOLOZA, S##HERBORN, G##NARANJO, A##GOSSEC, L##BRESNIHAN, B##GAZZATO, M##BAECKLUND, E##SIERAKOWSKI, S##TUNC, R##SKAKIC, V##PINCUS, T

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RHEUMATOLOGY

RHEUMATOLOGY

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2020-11-20

NA

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FINLAND#DENMARK#NETHERLANDS#ARGENTINA#GERMANY#SPAIN#FRANCE#IRELAND#ITALY#SWEDEN#POLAND#TURKEY#SERBIA#TN USA

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2015

HIV-1 CCR5 GENE THERAPY WILL FAIL UNLESS IT IS COMBINED WITH A SUICIDE GENE

HIGHLY ACTIVE ANTIRETROVIRAL THERAPY (ART) HAS SUCCESSFULLY TURNED HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 (HIV-1) FROM A DEADLY PATHOGEN INTO A MANAGEABLE CHRONIC INFECTION. ART IS A LIFELONG THERAPY WHICH IS BOTH EXPENSIVE AND TOXIC, AND HIV CAN BECOME RESISTANT TO IT. AN ALTERNATIVE TO LIFELONG ART IS GENE THERAPY THAT TARGETS THE CCR5 CO-RECEPTOR AND CREATES A POPULATION OF GENETICALLY MODIFIED HOST CELLS THAT ARE LESS SUSCEPTIBLE TO VIRAL INFECTION. WITH GENERIC MATHEMATICAL MODELS WE SHOW THAT GENE THERAPY THAT ONLY TARGETS THE CCR5 CO-RECEPTOR FAILS TO SUPPRESS HIV-1 (WHICH IS IN AGREEMENT WITH CURRENT DATA). WE PREDICT THAT THE SAME GENE THERAPY CAN BE MARKEDLY IMPROVED IF IT IS COMBINED WITH A SUICIDE GENE THAT IS ONLY EXPRESSED UPON HIV-1 INFECTION.

T-CELLS; INFECTION; PATHOGENESIS; PROTEIN; MODELS

NA

SCIENTIFIC REPORTS

PANDIT, A##DE BOER, RJ

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MULTIDISCIPLINARY SCIENCES

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2020-11-29

EUROPEAN UNIONEUROPEAN UNION (EU) [317040]

UNIV UTRECHT

NETHERLANDS

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WOS:000367119800019

2015

FELINE HEPATIC BIOTRANSFORMATION OF DIAZEPAM: DIFFERENCES BETWEEN CATS AND DOGS

IN CONTRAST TO HUMANS AND DOGS, DIAZEPAM HAS BEEN REPORTED TO INDUCE SEVERE HEPATIC SIDE EFFECTS IN CATS, PARTICULARLY AFTER REPEATED DOSING. WITH THE AIM TO ELUCIDATE THE MECHANISMS UNDERLYING THIS APPARENT SENSITIVITY OF CATS TO DRUG-INDUCED LIVER INJURY, IN A SERIES OF IN VITRO EXPERIMENTS, THE FELINE-SPECIFIC BIOTRANSFORMATION OF DIAZEPAM WAS STUDIED WITH LIVER MICROSOMES OBTAINED FROM CATS AND DOGS AND THE POSSIBLE INHIBITION OF THE BILE SALT EXPORT PUMP (BSEP) WAS MEASURED IN ISOLATED MEMBRANE VESICLES OVEREXPRESSING FELINE AND CANINE BSEP. IN LINE WITH PREVIOUS IN VIVO STUDIES, THE PHASE I METABOLITES NORDIAZEPAM, TEMAZEPAM AND OXAZEPAM WERE MEASURABLE IN MICROSOMAL INCUBATIONS, ALTHOUGH ENZYME VELOCITY OF DEMETHYLASES AND HYDROXYLASES DIFFERED SIGNIFICANTLY BETWEEN CATS AND DOGS. IN CATS, THE MAIN METABOLITE WAS TEMAZEPAM, WHICH ALSO COULD BE GLUCURONIDATED. IN CONTRAST TO DOGS, NO OTHER GLUCURONIDATED METABOLITES COULD BE OBSERVED. IN ADDITION, IN THE MEMBRANE VESICLES AN INHIBITION OF THE TRANSPORT OF THE BSEP SUBSTRATE TAUROCHOLIC ADD COULD BE OBSERVED IN THE PRESENCE OF DIAZEPAM AND ITS METABOLITES. IT WAS CONCLUDED THAT BOTH MECHANISMS, THE SLOW BIOTRANSFORMATION OF DIAZEPAM AS WELL THE INHIBITION OF THE BILE ADD EFFLUX THAT RESULTS IN AN ACCUMULATION OF BILE ACIDS IN THE HEPATOCYTES, SEEM TO CONTRIBUTE TO THE LIVER INJURY OBSERVED IN CATS FOLLOWING REPETITIVE TREATMENT WITH DIAZEPAM. (C) 2015 ELSEVIER LTD. ALL RIGHTS RESERVED.

ANTIEPILEPTIC DRUG-THERAPY; SALT EXPORT PUMP; CYTOCHROMES P450; GUINEA-PIG; PHARMACOKINETICS; METABOLISM; RAT; GLUCURONIDATION; HEPATOCYTES; SUBSTRATE

DIAZEPAM; CATS; GLUCURONIDATION; BILE SALT EXPORT PUMP (BSEP); LIVER INJURY

RESEARCH IN VETERINARY SCIENCE

VAN BEUSEKOM, CD##VAN DEN HEUVEL, JJMW##KOENDERINK, JB##RUSSEL, FGM##SCHRICKX, JA

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VETERINARY SCIENCES

VETERINARY SCIENCES

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2020-11-29

UTRECHT UNIVERSITY

UNIV UTRECHT#RADBOUD UNIV NIJMEGEN

NETHERLANDS#NETHERLANDS

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WOS:000241792801520

2006

SHORT TERM ADMINISTRATION OF RECONSTITUTED APOAI DISCS INCREASES CIRCULATING PROGENITOR CELLS IN TYPE 2 DIABETES

NA

NA

NA

CIRCULATION

VAN OOSTROM, O##NIEUWDORP, M##WESTERWEEL, PE##HOEFER, IE##STROES, ES##VERHAAR, MC

UNIV UTRECHT, MED CTR, DEPT VASC MED, UTRECHT, NETHERLANDS. ACAD MED CTR, DEPT VASC MED, AMSTERDAM, NETHERLANDS. UNIV UTRECHT, MED CTR, DEPT EXPT CARDIOL, UTRECHT, NETHERLANDS.

CARDIAC & CARDIOVASCULAR SYSTEMS; PERIPHERAL VASCULAR DISEASE

CARDIOVASCULAR SYSTEM & CARDIOLOGY

NA

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2020-11-20

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UNIV UTRECHT#ACAD MED CTR#UNIV UTRECHT

NETHERLANDS#NETHERLANDS#NETHERLANDS

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WOS:000239165100008

2006

THE USE OF ""CONTEXTS"" AS A CHALLENGE FOR THE CHEMISTRY CURRICULUM: ITS SUCCESSES AND THE NEED FOR FURTHER DEVELOPMENT AND UNDERSTANDING

IN THIS PAPER WE REFLECT ON THE EXPERIENCES AND RESULTS OF THE DEVELOPMENT AND IMPLEMENTATION OF CONTEXT-BASED CHEMISTRY EDUCATION. THIS DEVELOPMENT IS DISCUSSED WITH RESPECT TO FIVE CHALLENGES DEFINED FOR CHEMISTRY CURRICULA (GILBERT, 2006). FIVE CONTEXT-BASED APPROACHES WERE SELECTED THAT WILL PROVIDE THE DATA FOR THIS STUDY (BENNETT & LUBBEN, 2006; BULTE, WESTBROEK, DE JONG, & PILOT, 2006; HOFSTEIN & KESNER, 2006; PARCHMANN, GRASEL, BAER, NENTWIG, DEMUTH, RALLE, & THE CHIK PROJECT TEAM, 2006; SCHWARTZ, 2006). THESE APPROACHES HAVE BEEN PRESENTED USING A MODEL TO REPRESENT THE SPIRAL DEVELOPMENT OF AN IDEAL CURRICULUM UNTIL THE EXPERIENCED AND ATTAINED CURRICULUM (GOODLAD, 1979; VAN DEN AKKER, 1998). FOR EACH OF THE FIVE APPROACHES WE ANALYSED THEIR CONTRIBUTION TO THE FIVE CURRICULAR CHALLENGES, THE ESSENTIAL CHARACTERISTICS OF THE OUTCOMES AND PRODUCTS, THE CONDITIONS THAT WERE FOSTERING AND HINDERING THE DEVELOPMENT, THE DESIGN PRINCIPLES, THE TOOLS AND THE PROCEDURES USED. THE OUTCOMES OF THE ANALYSIS ARE RELATED TO GILBERT'S CRITERIA FOR THE 'USE OF CONTEXTS' IN CHEMISTRY EDUCATION. THIS LEADS THE IDENTIFICATION OF PRIORITIES AS NEW HYPOTHESES AND CHALLENGES THAT SET THE FUTURE AGENDA FOR SYSTEMATIC CURRICULUM DEVELOPMENT OF CONTEXT-BASED CHEMISTRY EDUCATION.

SCIENCE; PERSPECTIVES; INQUIRY; PHYSICS

NA

INTERNATIONAL JOURNAL OF SCIENCE EDUCATION

PILOT, A##BULTE, AMW

UNIV UTRECHT, CTR SCI & MATH EDUC, NL-3584 CC UTRECHT, NETHERLANDS.

EDUCATION & EDUCATIONAL RESEARCH

EDUCATION & EDUCATIONAL RESEARCH

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2020-11-20

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WOS:000460571800180

2014

FIRST CLOSED GENOME SEQUENCE OF CAMPYLOBACTER FETUS SUBSP. VENEREALIS BV. INTERMEDIUS

CAMPYLOBACTER FETUS SUBSP. VENEREALIS BV. INTERMEDIUS IS A VARIANT OF C. FETUS SUBSP. VENEREALIS, THE CAUSATIVE AGENT OF BOVINE GENITAL CAMPYLOBACTERIOSIS, A VENEREAL DISEASE ASSOCIATED WITH ABORTION AND INFERTILITY IN CATTLE. WE REPORT THE FIRST CLOSED WHOLE-GENOME SEQUENCE OF THIS BIOVAR.

NA

NA

MICROBIOLOGY RESOURCE ANNOUNCEMENTS

VAN DER GRAAF-VAN BLOOIS, L##MILLER, WG##YEE, E##BONO, JL##RIJNSBURGER, M##CAMPERO, C##WAGENAAR, JA##DUIM, B

[VAN DER GRAAF-VAN BLOOIS, LINDA; WAGENAAR, JAAP A.; DUIM, BIRGITTA] UNIV UTRECHT, FAC VET MED, DEPT INFECT DIS & IMMUNOL, UTRECHT, NETHERLANDS. [VAN DER GRAAF-VAN BLOOIS, LINDA; WAGENAAR, JAAP A.; DUIM, BIRGITTA] WHO COLLABORATING CTR CAMPYLOBACTER, OIE REFERENCE LAB CAMPYLOBACTERIOSIS, UTRECHT, NETHERLANDS. [MILLER, WILLIAM G.; YEE, EMMA] ARS, PRODUCE SAFETY & MICROBIOL RES UNIT, USDA, ALBANY, CA USA. [BONO, JAMES L.] ARS, MEAT SAFETY & QUAL RES UNIT, USDA, CLAY CTR, NE USA. [RIJNSBURGER, MARTINE] VRIJE UNIV AMSTERDAM MED CTR, DEPT MED MICROBIOL & INFECT CONTROL, AMSTERDAM, NETHERLANDS. [CAMPERO, CARLOS] INTA, PATOL VET, BALCARCE, ARGENTINA. [WAGENAAR, JAAP A.] CENT VET INST WAGENINGEN UR, LELYSTAD, NETHERLANDS.

MICROBIOLOGY

MICROBIOLOGY

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2020-11-27

USDA-ARS CRISUNITED STATES DEPARTMENT OF AGRICULTURE (USDA) [5325-42000-047-00D]

UNIV UTRECHT#WHO COLLABORATING CTR CAMPYLOBACTER#ARS#ARS#VRIJE UNIV AMSTERDAM MED CTR#INTA#CENT VET INST WAGENINGEN UR

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WOS:000231296200008

2005

ACCURACY OF A SEMIQUANTITATIVE METHOD FOR DERMAL EXPOSURE ASSESSMENT (DREAM)

BACKGROUND: THE AUTHORS RECENTLY DEVELOPED A DERMAL EXPOSURE ASSESSMENT METHOD (DREAM), AN OBSERVATIONAL SEMIQUANTITATIVE METHOD TO ASSESS DERMAL EXPOSURES BY SYSTEMATICALLY EVALUATING EXPOSURE DETERMINANTS USING PRE-ASSIGNED DEFAULT VALUES. AIM: TO EXPLORE THE ACCURACY OF THE DREAM METHOD BY COMPARING ITS ESTIMATES WITH QUANTITATIVE DERMAL EXPOSURE MEASUREMENTS IN SEVERAL OCCUPATIONAL SETTINGS. METHODS: OCCUPATIONAL HYGIENISTS OBSERVED WORKERS PERFORMING A CERTAIN TASK, WHOSE EXPOSURE TO CHEMICAL AGENTS ON SKIN OR CLOTHING WAS MEASURED QUANTITATIVELY SIMULTANEOUSLY, AND FILLED IN THE DREAM QUESTIONNAIRE. DREAM ESTIMATES WERE COMPARED WITH MEASUREMENT DATA BY ESTIMATING SPEARMAN CORRELATION COEFFICIENTS FOR EACH TASK AND FOR INDIVIDUAL OBSERVATIONS. IN ADDITION, MIXED LINEAR REGRESSION MODELS WERE USED TO STUDY THE EFFECT OF DREAM ESTIMATES ON THE VARIABILITY IN MEASURED EXPOSURES BETWEEN TASKS, BETWEEN WORKERS, AND FROM DAY TO DAY. RESULTS: FOR SKIN EXPOSURES, SPEARMAN CORRELATION COEFFICIENTS FOR INDIVIDUAL OBSERVATIONS RANGED FROM 0.19 TO 0.82. DREAM ESTIMATES FOR EXPOSURE LEVELS ON HANDS AND FOREARMS SHOWED A FIXED EFFECT BETWEEN AND WITHIN SURVEYS, EXPLAINING MAINLY BETWEEN-TASK VARIANCE. IN GENERAL, EXPOSURE LEVELS ON CLOTHING LAYER WERE ONLY PREDICTED IN A MEANINGFUL WAY BY DETAILED DREAM ESTIMATES, WHICH COMPRISED DETAILED INFORMATION ON THE CONCENTRATION OF THE AGENT IN THE FORMULATION TO WHICH EXPOSURE OCCURRED. CONCLUSIONS: THE AUTHORS EXPECT THAT THE DREAM METHOD CAN BE SUCCESSFULLY APPLIED FOR SEMIQUANTITATIVE DERMAL EXPOSURE ASSESSMENT IN EPIDEMIOLOGICAL AND OCCUPATIONAL HYGIENE SURVEYS OF GROUPS OF WORKERS WITH CONSIDERABLE CONTRAST IN DERMAL EXPOSURE LEVELS (VARIABILITY BETWEEN GROUPS >1.0). FOR SURVEYS WITH LESS CONTRASTING EXPOSURE LEVELS, QUANTITATIVE DERMAL EXPOSURE MEASUREMENTS ARE PREFERABLE.

VIDEO IMAGING TECHNIQUE; SUBJECTIVE ASSESSMENT; MEASUREMENT ERROR; RELIABILITY; BENZENE; MODEL

NA

OCCUPATIONAL AND ENVIRONMENTAL MEDICINE

DE JOODE, BV##VERMEULEN, R##VAN HEMMEN, JJ##FRANSMAN, W##KROMHOUT, H

UNIV UTRECHT, INST RISK ASSESSMENT SCI, ENVIRONM & OCCUPAT HLTH DIV, NL-3508 TD UTRECHT, NETHERLANDS. NCI, OCCUPAT & ENVIRONM EPIDEMIOL BRANCH, DIV CANC EPIDEMIOL & GENET, ROCKVILLE, MD USA.

PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH

PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH

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2020-12-18

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NETHERLANDS#MD USA

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WOS:000344469700011

2014

AN EXPERIMENTAL AND SIMULATION STUDY ON THE SELF-ASSEMBLY OF COLLOIDAL CUBES IN EXTERNAL ELECTRIC FIELDS

WHEN A SUSPENSION OF COLLOIDAL PARTICLES IS PLACED IN AN OSCILLATING ELECTRIC FIELD, THE CONTRAST IN DIELECTRIC CONSTANT BETWEEN THE PARTICLES AND THE SOLVENT INDUCES A DIPOLE MOMENT IN EACH OF THE COLLOIDAL PARTICLES. THE RESULTING DIPOLE-DIPOLE INTERACTIONS CAN STRONGLY INFLUENCE THE PHASE BEHAVIOR OF THE SYSTEM. WE INVESTIGATE THE PHASE BEHAVIOR OF CUBE-SHAPED COLLOIDAL PARTICLES IN ELECTRIC FIELDS, USING BOTH EXPERIMENTS AND MONTE CARLO SIMULATIONS. IN ADDITION TO A STRING FLUID PHASE AND A BODY CENTERED TETRAGONAL (BCT) CRYSTAL PHASE, WE OBSERVE A COLUMNAR PHASE CONSISTING OF HEXAGONALLY ORDERED STRINGS OF ROTATIONALLY DISORDERED CUBES. BY SIMULATING THE SYSTEM FOR A RANGE OF PRESSURES AND ELECTRIC FIELD STRENGTHS, WE MAP OUT THE PHASE DIAGRAM, AND COMPARE THE RESULTS TO THE EXPERIMENTALLY OBSERVED PHASES. ADDITIONALLY, WE ESTIMATE THE ACCURACY OF A POINT-DIPOLE APPROXIMATION ON THE ALIGNMENT OF CUBES IN STRING-LIKE CLUSTERS.

PHASE-BEHAVIOR; SYSTEM

NA

SOFT MATTER

VUTUKURI, HR##SMALLENBURG, F##BADAIRE, S##IMHOF, A##DIJKSTRA, M##VAN BLAADEREN, A

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CHEMISTRY, PHYSICAL; MATERIALS SCIENCE, MULTIDISCIPLINARY; PHYSICS, MULTIDISCIPLINARY; POLYMER SCIENCE

CHEMISTRY; MATERIALS SCIENCE; PHYSICS; POLYMER SCIENCE

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ALCOHOL AND THE INTESTINE

ALCOHOL ABUSE IS A SIGNIFICANT CONTRIBUTOR TO THE GLOBAL BURDEN OF DISEASE AND CAN LEAD TO TISSUE DAMAGE AND ORGAN DYSFUNCTION IN A SUBSET OF ALCOHOLICS. HOWEVER, A SUBSET OF ALCOHOLICS WITHOUT ANY OF THESE PREDISPOSING FACTORS CAN DEVELOP ALCOHOL-MEDIATED ORGAN INJURY. THE GASTROINTESTINAL TRACT (GI) COULD BE AN IMPORTANT SOURCE OF INFLAMMATION IN ALCOHOL-MEDIATED ORGAN DAMAGE. THE PURPOSE OF REVIEW WAS TO EVALUATE MECHANISMS OF ALCOHOL-INDUCED ENDOTOXEMIA (INCLUDING DYSBIOSIS AND GUT LEAKINESS), AND HIGHLIGHT THE PREDISPOSING FACTORS FOR ALCOHOL-INDUCED DYSBIOSIS AND GUT LEAKINESS TO ENDOTOXINS. BARRIERS, INCLUDING IMMUNOLOGIC, PHYSICAL, AND BIOCHEMICAL CAN REGULATE THE PASSAGE OF TOXINS INTO THE PORTAL AND SYSTEMIC CIRCULATION. IN ADDITION, A HOST OF ENVIRONMENTAL INTERACTIONS INCLUDING THOSE INFLUENCED BY CIRCADIAN RHYTHMS CAN IMPACT ALCOHOL-INDUCED ORGAN PATHOLOGY. THERE APPEARS TO BE A ROLE FOR THERAPEUTIC MEASURES TO MITIGATE ALCOHOL-INDUCED ORGAN DAMAGE BY NORMALIZING INTESTINAL DYSBIOSIS AND/OR IMPROVING INTESTINAL BARRIER INTEGRITY. ULTIMATELY, THE INFLAMMATORY PROCESS THAT DRIVES PROGRESSION INTO ORGAN DAMAGE FROM ALCOHOL APPEARS TO BE MULTIFACTORIAL. UNDERSTANDING THE ROLE OF THE INTESTINE IN THE PATHOGENESIS OF ALCOHOLIC LIVER DISEASE CAN POSE FURTHER AVENUES FOR PATHOGENIC AND TREATMENT APPROACHES.

TUMOR-NECROSIS-FACTOR; INDUCED LIVER-INJURY; INDUCED GUT LEAKINESS; CHAIN FATTY-ACIDS; BARRIER DYSFUNCTION; EPITHELIAL BARRIER; PARACELLULAR PERMEABILITY; POSSIBLE MECHANISM; ETHANOL-PRODUCTION; OXIDATIVE STRESS

ALCOHOL; DYSBIOSIS; ENDOTOXEMIA; GUT LEAKINESS

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MASS POPULATION: PLAUSIBLE AND PRACTICAL CROWD SIMULATION

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COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS; SOCIAL SCIENCES, INTERDISCIPLINARY

COMPUTER SCIENCE; SOCIAL SCIENCES - OTHER TOPICS

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2015

EVALUATING MANIFEST MONOTONICITY USING BAYES FACTORS

THE ASSUMPTION OF LATENT MONOTONICITY IN ITEM RESPONSE THEORY MODELS FOR DICHOTOMOUS DATA CANNOT BE EVALUATED DIRECTLY, BUT OBSERVABLE CONSEQUENCES SUCH AS MANIFEST MONOTONICITY FACILITATE THE ASSESSMENT OF LATENT MONOTONICITY IN REAL DATA. STANDARD METHODS FOR EVALUATING MANIFEST MONOTONICITY TYPICALLY PRODUCE A TEST STATISTIC THAT IS GEARED TOWARD FALSIFICATION, WHICH CAN ONLY PROVIDE INDIRECT SUPPORT IN FAVOR OF MANIFEST MONOTONICITY. WE PROPOSE THE USE OF BAYES FACTORS TO QUANTIFY THE DEGREE OF SUPPORT AVAILABLE IN THE DATA IN FAVOR OF MANIFEST MONOTONICITY OR AGAINST MANIFEST MONOTONICITY. THROUGH THE USE OF INFORMATIVE HYPOTHESES, THIS PROCEDURE CAN ALSO BE USED TO DETERMINE THE SUPPORT FOR MANIFEST MONOTONICITY OVER SUBSTANTIVELY OR STATISTICALLY RELEVANT ALTERNATIVES TO MANIFEST MONOTONICITY, RENDERING THE PROCEDURE HIGHLY FLEXIBLE. THE PERFORMANCE OF THE PROCEDURE IS EVALUATED USING A SIMULATION STUDY, AND THE APPLICATION OF THE PROCEDURE IS ILLUSTRATED USING EMPIRICAL DATA.

LATENT TRAIT; SUM SCORE; IRT

BAYES FACTOR; ESSENTIAL MONOTONICITY; ITEM RESPONSE THEORY; LATENT MONOTONICITY; MANIFEST MONOTONICITY

PSYCHOMETRIKA

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MATHEMATICS, INTERDISCIPLINARY APPLICATIONS; SOCIAL SCIENCES, MATHEMATICAL METHODS; PSYCHOLOGY, MATHEMATICAL

MATHEMATICS; MATHEMATICAL METHODS IN SOCIAL SCIENCES; PSYCHOLOGY

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2014

ASSESSING TRANSFORMATION PATHWAYS

NA

GREENHOUSE-GAS EMISSIONS; CLIMATE-CHANGE MITIGATION; SOLAR-RADIATION MANAGEMENT; RESEARCH-AND-DEVELOPMENT; ENDOGENOUS TECHNOLOGICAL-CHANGE; DIRECTED TECHNICAL CHANGE; PUBLIC-HEALTH BENEFITS; WORLD WATER-RESOURCES; HOUSEHOLD ENERGY USE; CARBON-CYCLE MODELS

NA

CLIMATE CHANGE 2014: MITIGATION OF CLIMATE CHANGE

CLARKE, L##JIANG, KJ##AKIMOTO, K##BABIKER, M##BLANFORD, G##FISHER-VANDEN, K##HOURCADE, JC##KREY, V##KRIEGLER, E##LOSCHEL, A##MCCOLLUM, D##PALTSEV, S##ROSE, S##SHUKLA, PR##TAVONI, M##VAN DER ZWAAN, B##VAN VUUREN, DP##BOTTCHER, H##CALVIN, K##DAENZER, K##DEN ELZEN, M##DHAR, S##EOM, J##HOELLER, S##HOHNE, N##HULTMAN, N##IRVINE, P##JEWELL, J##JOHNSON, N##KANUDIA, A##KELEMEN, A##KELLER, K##KOLP, P##LAWRENCE, M##LONGDEN, T##LOWE, J##DE LUCENA, AFP##LUDERER, G##MARANGONI, G##MOORE, N##MOURATIADOU, I##PETERMANN, N##RASCH, P##RIAHI, K##ROGELJ, J##SCHAEFFER, M##SCHAFER, S##SEDLACEK, J##SOKKA, L##VON STECHOW, C##WING, IS##VAUGHAN, N##WIERTZ, T##ZWICKEL, T

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ENVIRONMENTAL SCIENCES; ENVIRONMENTAL STUDIES

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EDITORIAL OVERVIEW: PROTEIN-PROTEIN INTERACTIONS

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BIOCHEMISTRY & MOLECULAR BIOLOGY; CELL BIOLOGY

BIOCHEMISTRY & MOLECULAR BIOLOGY; CELL BIOLOGY

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2006

SYNTHESIS, CHARACTERIZATION, AND DNA-BINDING STUDIES OF NITRO(OLIGOPYRIDINE) RUTHENIUM(II) COMPLEXES

THE COMPLEXES OF GENERAL FORMULAS [RU-II(TERPY)(4-CO2H-4'-MEBPY)(X)](N+) (X = NO (N = 3) AND NO2 (N = 1); 1, 2) AND [RU-II(TERPY)(4-COGHK-4'-MEBPY)(X)] (X = NO (N = 3) AND NO2 (N = 1); 3, 4) WERE SYNTHESIZED AND CHARACTERIZED. THE COMPLEX [RU-II(TERPY)(4-CO2-4'-MEBPY)(NO2)](-)7.5H(2)O HAS ALSO BEEN CHARACTERIZED BY X-RAY CRYSTALLOGRAPHIC STUDIES. IT CRYSTALLIZES IN THE TRICLINIC SYSTEM: A = 9.4982(1) ANGSTROM, B = 13.1330(1) ANGSTROM, C = 14.2498(2) ANGSTROM; ALPHA = 110.5870(6)XBC, BETA = 98.4048(5)XBC, GAMMA = 106.4353(5), P (1) OVER BAR, Z = 2. THE CRYSTAL STRUCTURE REVEALS AN EXTENDED HYDROGEN-BONDING NETWORK. TWO WATER MOLECULES FORM STRONG HYDROGEN BONDS WITH THE NITRO AND THE CARBOXYLIC OXYGEN ATOMS OF TWO SEPARATE UNITS OF THE COMPLEX, RESULTING IN A DIMERIC UNIT. THE DIMERS ARE BRIDGED BY A (H2O)(15) CLUSTER, CONSISTING OF TWO CYCLO-(H2O)(6) SPECIES, WHILE AN EXO-H2O(8) CONNECTS THEM. TWO MORE EXO-H2O MOLECULES ARE JOINED TOGETHER AND CONNECT THE CYCLO-(H2O)(6) UNITS WITH THE H2O(1) OF THE DIMERIC UNIT. IT WAS FOUND THAT COMPLEXES 1 AND 3 CAN BE TRANSFORMED INTO THEIR NITRO DERIVATIVES IN AQUEOUS MEDIA AT NEUTRAL PH. PHOTORELEASE OF NO IN DRY MECN SOLUTIONS WAS OBSERVED FOR COMPLEXES 1 AND 3. ALSO, COMPLEX 2 PARTIALLY RELEASES (NO2)(-) IN MECN UPON VISIBLE LIGHT IRRADIATION. COMPLEX 2 INTERACTS WITH SHORT FRAGMENTS (70-300 BP) OF CALF THYMUS DNA SHORTENING SLIGHTLY THE APPARENT POLYNUCLEOTIDE LENGTH, WHILE THE CONJUGATION OF THE PEPTIDE GHK TO IT (2) AFFECTS ITS DNA-BINDING MODE. THE PEPTIDE MOIETY OF COMPLEX 4 WAS FOUND TO INTERACT WITH THE DNA HELIX IN A SYNERGISTIC WAY WITH THE WHOLE COMPLEX. PRELIMINARY RESULTS OF PHOTOCLEAVAGE OF DNA BY COMPLEX 2 ARE ALSO REPORTED.

CALF THYMUS DNA; CRYSTAL-STRUCTURE; NITRIC-OXIDE; DEOXYNUCLEOTIDE DUPLEX; NITROSYL COMPLEXES; ELECTRON-TRANSFER; POLYPYRIDINE COMPLEXES; STEREOSPECIFIC BINDING; CIRCULAR-DICHROISM; ANCILLARY LIGANDS

NA

INORGANIC CHEMISTRY

KARIDI, K##GAROUFIS, A##HADJILIADIS, N##LUTZ, M##SPEK, AL##REEDIJK, J

UNIV IOANNINA, LAB INORGAN & GEN CHEM, DEPT CHEM, GR-45110 IOANNINA, GREECE. UNIV UTRECHT, BIJVOET CTR BIOMOL CTR CRYSTAL & STRUCT CHEM, NL-3584 CH UTRECHT, NETHERLANDS. LEIDEN UNIV, GORLAEUS LABS, LEIDEN INST CHEM, NL-2300 RA LEIDEN, NETHERLANDS.

CHEMISTRY, INORGANIC & NUCLEAR

CHEMISTRY

ALTOMARE A, 1999, J APPL CRYSTALLOGR, V32, P115, DOI 10.1107/S0021889898007717##BLESSING RH, 1997, J APPL CRYSTALLOGR, V30, P421, DOI 10.1107/S0021889896014628##BORDINI J, 2002, INORG CHEM, V41, P5410, DOI 10.1021/IC011273D##BRYANT GM, 1971, AUST J CHEM, V24, P257, DOI 10.1071/CH9710257##CALLAHAN RW, 1977, INORG CHEM, V16, P574, DOI 10.1021/IC50169A015##CATTE A, 2002, J BIOMOL STRUCT DYN, V20, P99, DOI 10.1080/07391102.2002.10506827##CHANDA N, 2005, INORG CHEM, V44, P3499, DOI 10.1021/IC048184W##CHANDA N, 2004, INORG CHEM, V43, P5128, DOI 10.1021/IC049605C##CHANDA N, 2004, INORG CHEM, V43, P1056, DOI 10.1021/IC034902N##COPELAND KD, 2002, BIOCHEMISTRY-US, V41, P343, DOI 10.1021/BI011793K##COPELAND KD, 2002, BIOCHEMISTRY-US, V41, P12785, DOI 10.1021/BI020407B##ERKKILA KE, 1999, CHEM REV, V99, P2777, DOI 10.1021/CR9804341##ERSHOV AY, 2004, RUSS J GEN CHEM+, V74, P651, DOI 10.1023/B:RUGC.0000039071.51270.43##FORD PC, 2005, COORDIN CHEM REV, V249, P391, DOI 10.1016/J.CCR.2004.04.006##FORD PC, 2002, CHEM REV, V102, P993, DOI 10.1021/CR0000271##FORD PC, 2005, COORDIN CHEM REV, V249, P1382, DOI 10.1016/J.CCR.2004.10.022##GARCIAFRESNADILLO D, 1996, HELV CHIM ACTA, V79, P1222, DOI 10.1002/HLCA.19960790428##GHOSH SK, 2005, INORG CHEM, V44, P3856, DOI 10.1021/IC050102W##GHOSH SK, 2003, INORG CHEM, V42, P8250, DOI 10.1021/IC034976Z##GODWIN JB, 1971, INORG CHEM, V10, P471##HARTSHORN CM, 2001, INORG CHEM, V40, P601, DOI 10.1021/IC9911724##HERGUETA-BRAVO A, 2002, J PHYS CHEM B, V106, P4010, DOI 10.1021/JP013542R##IVANOV VI, 1973, BIOPOLYMERS, V12, P89, DOI 10.1002/BIP.1973.360120109##JI LN, 2001, COORDIN CHEM REV, V216, P513, DOI 10.1016/S0010-8545(01)00338-1##KANE-MAGUIRE NAP, 2001, COORDIN CHEM REV, V211, P145, DOI 10.1016/S0010-8545(00)00280-0##KANKIA BI, 2001, NUCLEIC ACIDS RES, V29, P2795, DOI 10.1093/NAR/29.13.2795##KANKIA BI, 2000, BIOPHYS CHEM, V84, P227, DOI 10.1016/S0301-4622(00)00125-3##KAR S, 2005, CHEM-EUR J, V11, P4901, DOI 10.1002/CHEM.200500202##KARIDI K, 2005, DALTON T, P1176, DOI 10.1039/B418838A##KARIDI K, 2005, DALTON T, P728, DOI 10.1039/B410402A##KUMAR CV, 1985, J AM CHEM SOC, V107, P5518, DOI 10.1021/JA00305A032##LANG DR, 2000, INORG CHEM, V39, P2294, DOI 10.1021/IC9912979##LASEY RC, 2000, INORG CHIM ACTA, V300, P822, DOI 10.1016/S0020-1693(99)00589-7##LEISING RA, 1990, INORG CHEM, V29, P1306, DOI 10.1021/IC00332A004##LOPES LGF, 2001, INORG CHIM ACTA, V312, P15, DOI 10.1016/S0020-1693(00)00341-8##LUO Y, 1996, INORG CHEM, V35, P5445, DOI 10.1021/IC950694Q##MCCLEVERTY JA, 2004, CHEM REV, V104, P403, DOI 10.1021/CR020623Q##MONDAL B, 2001, J CHEM SOC DALTON, P481, DOI 10.1039/B007975H##MYARI A, 2005, BIOINORG CHEM APPL, V3, P109, DOI 10.1155/BCA.2005.109##MYARI A, 2005, J INORG BIOCHEM, V99, P616, DOI 10.1016/J.JINORGBIO.2004.11.010##MYARI A, 2004, EUR J INORG CHEM, P1427, DOI 10.1002/EJIC.200300725##ONEILL MA, 2004, LONG RANGE CHARGE TR, V236##PATEL DJ, 1976, BIOPOLYMERS, V15, P533, DOI 10.1002/BIP.1976.360150310##PATRA AK, 2003, INORG CHEM, V42, P7363, DOI 10.1021/IC030110H##PEEK BM, 1991, INT J PEPT PROT RES, V38, P114##PIPES DW, 1984, INORG CHEM, V23, P2466, DOI 10.1021/IC00184A021##ROBINSON K, 1971, SCIENCE, V172, P567, DOI 10.1126/SCIENCE.172.3983.567##SARDESAI NY, 1995, BIOCONJUGATE CHEM, V6, P302, DOI 10.1021/BC00033A011##SARDESAI NY, 1994, J AM CHEM SOC, V116, P7502, DOI 10.1021/JA00096A005##SARKAR S, 2005, INORG CHEM, V44, P6092, DOI 10.1021/IC050533E##SHELDRICK G. M., 1997, SHELXL97 PROGRAM CRY##SLOCIK JM, 2000, INORG CHIM ACTA, V311, P80, DOI 10.1016/S0020-1693(00)00309-1##SPEEDY RJ, 1987, J PHYS CHEM-US, V91, P909, DOI 10.1021/J100288A029##SPEK AL, 2003, J APPL CRYSTALLOGR, V36, P7, DOI 10.1107/S0021889802022112##SULLIVAN BP, 1980, INORG CHEM, V19, P1404, DOI 10.1021/IC50207A066##WILSON WD, 1982, NUCLEIC ACIDS RES, V10, P1399, DOI 10.1093/NAR/10.4.1399##XIONG Y, 1999, COORDIN CHEM REV, V185-6, P711, DOI 10.1016/S0010-8545(99)00019-3##YAMAGISHI A, 1983, J CHEM SOC CHEM COMM, P572, DOI 10.1039/C39830000572##YAMAGISHI A, 1984, J PHYS CHEM-US, V88, P5709, DOI 10.1021/J150667A050##YE BH, 2004, INORG CHEM, V43, P6866, DOI 10.1021/IC049232F

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UNIV IOANNINA#UNIV UTRECHT#LEIDEN UNIV

GREECE#NETHERLANDS#NETHERLANDS

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WOS:000366767700098

2015

ENHANCED INFLAMMATORY POTENTIAL OF CD4 T CELLS THAT LACK IMMUNOPROTEASOME SUBUNIT EXPRESSION IN A T-CELL TRANSFER BASED COLITIS MODEL

NA

NA

NA

MOLECULAR IMMUNOLOGY

RASID, O##MEULENBROEKS, C##GRONE, A##ZAISS, D##SIJTS, A

[RASID, ORHAN; MEULENBROEKS, CHANTAL; ZAISS, DIETMAR; SIJTS, ALICE] UNIV UTRECHT, FAC VET MED, DEPT INFECT DIS & IMMUNOL, NL-3584 CL UTRECHT, NETHERLANDS. [GRONE, ANDREA] UNIV UTRECHT, FAC VET MED, DEPT PATHOL, NL-3584 CL UTRECHT, NETHERLANDS.

BIOCHEMISTRY & MOLECULAR BIOLOGY; IMMUNOLOGY

BIOCHEMISTRY & MOLECULAR BIOLOGY; IMMUNOLOGY

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NETHERLANDS#NETHERLANDS

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WOS:000240281200554

2006

HIGHER PERSISTENCE WITH VALSARTAN COMPARED TO ENALAPRIL IN DAILY PRACTICE

NA

NA

NA

PHARMACOEPIDEMIOLOGY AND DRUG SAFETY

SIISKONEN, SJ##BREEKVELDT-POSTMA, NS##VINCZE, G##KHAN, ZM##ERKENS, JA##HERINGS, RMC

PHARMO INST, DRUG OUTCOMES RES, UTRECHT, NETHERLANDS. NOVARTIS PHARMA AG, BASEL, SWITZERLAND. UNIV UTRECHT, UTRECHT INST PHARMACEUT SCI, DEPT PHARMACOEPIDEMIOL & PHARMACOTHERAPY, UTRECHT, NETHERLANDS.

PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH; PHARMACOLOGY & PHARMACY

PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH; PHARMACOLOGY & PHARMACY

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2020-11-20

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PHARMO INST#NOVARTIS PHARMA AG#UNIV UTRECHT

NETHERLANDS#SWITZERLAND#NETHERLANDS

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WOS:000240922000060

2006

CRITICAL APPRAISAL OF ECONOMIC EVALUATIONS OF CHOLESTEROL LOWERING DRUGS: A SYSTEMATIC REVIEW

NA

NA

NA

VALUE IN HEALTH

GUMBS, PD##VERSCHUREN, WMM##MANTEL-TEEUWISSE, AK##DE WIT, GA##DE BOER, A##KLUNGEL, OH

UNIV UTRECHT, UTRECHT, NETHERLANDS. NATL INST PUBL HLTH & ENVIRONM, NL-3720 BA BILTHOVEN, NETHERLANDS.

ECONOMICS; HEALTH CARE SCIENCES & SERVICES; HEALTH POLICY & SERVICES

BUSINESS & ECONOMICS; HEALTH CARE SCIENCES & SERVICES

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2020-11-20

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2006

FIELD EVIDENCE FOR BUOYANCY-DRIVEN WATER FLOW IN A SPHAGNUM DOMINATED PEAT BOG

NOCTURNAL BUOYANCY-DRIVEN WATER FLOW IN BOGS IS PROPOSED AS A MECHANISM TO REPLENISH THE NUTRIENT AVAILABILITY IN THE TOP OF THE ACROTELM. IN AN EARLIER PAPER, WE PROVIDED EVIDENCE FOR BUOYANCY-DRIVEN WATER FLOW ON THEORETICAL AND EXPERIMENTAL GROUNDS. IN THIS PAPER, FIELD EVIDENCE IS GIVEN FOR THE OCCURRENCE OF NOCTURNAL BUOYANCY CELLS. MEASUREMENTS IN A SMALL ISOLATED BOG IN THE NETHERLANDS SHOWED THAT TEMPERATURE DIFFERENCES BETWEEN DAY AND NIGHT AND HYDRAULIC CONDUCTIVITY RESULTED IN A RAYLEIGH NUMBER THAT IS SUFFICIENTLY HIGH TO INDUCE BUOYANCY FLOW. IRREGULARITIES BETWEEN DIURNAL HEATING AND NOCTURNAL COOLING GAVE EVIDENCE THAT INDEED CONVECTIVE HEAT EXCHANGE OCCURRED. MOREOVER, WE OBSERVED A TEMPERATURE RISE AT 5-10 CM DEPTH AROUND MIDNIGHT, WHICH WOULD BE EXPECTED ON THEORETICAL GROUNDS IF BUOYANCY-DRIVEN WATER FLOW OCCURS. FURTHERMORE, THE OXYGEN CYCLES AT 5 CM DEPTH SHOWED AN IRREGULARITY, WHICH EXACTLY MATCHED THE TEMPERATURE IRREGULARITY. THIS ALSO STRONGLY SUGGESTS THAT BUOYANCY-DRIVEN WATER FLOW OCCURRED. NUTRIENT SAMPLES TAKEN FROM THE SAME OMBROTROPHIC BOG SHOWED A SIGNIFICANT INCREASE IN THE CONCENTRATIONS OF NH4+, CA2+, MG2+ AND CO2 WITH DEPTH, WHEREAS K+ SHOWED A SIGNIFICANT DECREASE WITH DEPTH INDICATING THAT BUOYANCY-DRIVEN WATER FLOW MAY POTENTIALLY REDISTRIBUTE THESE NUTRIENTS. THE SIZE OF THE BUOYANCY CELLS WAS ASSESSED UNDER CONTROLLED CONDITIONS IN A PEAT CORE TAKEN FROM THE BOG. WE OBSERVED TWO SPOTS OF UPWARD FLOW OF WARM WATER AND TWO SPOTS OF DOWNWARD FLOW OF COLD WATER. THE CELL SIZES WERE APPROXIMATELY 25-100 CM(2). WE CONCLUDE THAT NOCTURNAL BUOYANCY-DRIVEN WATER FLOW OCCURS IN THE FIELD WERE IT MAY BE AN IMPORTANT MECHANISM FOR RELOCATION OF OXYGEN AND NUTRIENTS. (C) 2005 ELSEVIER B.V. ALL RIGHTS RESERVED.

INCREASED NITROGEN DEPOSITION; VASCULAR PLANTS; CARBON; ECOSYSTEMS; GROWTH; LAYER; CO2

BUOYANCY-DRIVEN WATER FLOW; HYDRAULIC CONDUCTIVITY; PEAT MOSS; NUTRIENTS

JOURNAL OF HYDROLOGY

ADEMA, EB##BAAIJENS, GJ##VAN BELLE, J##RAPPOLDT, C##GROOTJANS, AP##SMOLDERS, AJP

UNIV GRONINGEN, CTR ECOL & EVOLUTIONARY STUDIES, NL-9750 AA HAREN, NETHERLANDS. ALTERRA, NL-6700 AA WAGENINGEN, NETHERLANDS. UNIV UTRECHT, COPERNICUS INST SUSTAINABLE DEV & INNOVAT, FAC GEOG, NL-3508 TC UTRECHT, NETHERLANDS. UNIV NIJMEGEN, NIJMEGEN, NETHERLANDS.

ENGINEERING, CIVIL; GEOSCIENCES, MULTIDISCIPLINARY; WATER RESOURCES

ENGINEERING; GEOLOGY; WATER RESOURCES

AERTS R, 1992, J ECOL, V80, P131, DOI 10.2307/2261070##BOBBINK R, 1995, WATER AIR SOIL POLL, V85, P2413, DOI 10.1007/BF01186195##BOUDREAU B.P., 1997, DIAGENETIC MODELS TH##BRAGAZZA L, 2004, GLOBAL BIOGEOCHEM CY, V18, DOI 10.1029/2004GB002267##BREHM K, 1971, BEITRAEGE ZUR BIOLOGIE DER PFLANZEN, V47, P287##CLYMO R.S., 1982, BRYOPHYTE ECOLOGY, P229, DOI DOI 10.1007/978-94-009-5891-3\_8##CLYMO RS, 1998, OIKOS, V81, P368, DOI 10.2307/3547057##CLYMO RS, 1963, ANN BOT-LONDON, V27, P309, DOI 10.1093/OXFORDJOURNALS.AOB.A083847##DAMMAN AWH, 1978, OIKOS, V30, P480, DOI 10.2307/3543344##DAMMAN AWH, 1986, CAN J BOT, V64, P384, DOI 10.1139/B86-055##DANIELS RE, 1985, HDB EUROPEAN SPHAGNA##FRENZEL P, 2000, BIOGEOCHEMISTRY, V51, P91, DOI 10.1023/A:1006351118347##GORHAM E, 1991, ECOL APPL, V1, P182, DOI 10.2307/1941811##HEIJMANS MMPD, 2001, J ECOL, V89, P268, DOI 10.1046/J.1365-2745.2001.00547.X##HEIJMANS MMPD, 2002, ECOSYSTEMS, V5, P500, DOI 10.1007/S10021-002-0201-X##HEIJMANS MMPD, 2002, OIKOS, V97, P415, DOI 10.1034/J.1600-0706.2002.970311.X##INGRAM HAP, 1978, J SOIL SCI, V29, P224, DOI 10.1111/J.1365-2389.1978.TB02053.X##KILHAM P, 1982, MICHIGAN BOTANIST, V21, P159##KUTILEK M., 1994, SOIL HYDROLOGY##LAMERS LPM, 2000, GLOB CHANGE BIOL, V6, P583, DOI 10.1046/J.1365-2486.2000.00342.X##LIMPENS J, 2003, NEW PHYTOL, V157, P339, DOI 10.1046/J.1469-8137.2003.00667.X##LIMPENS J, 2004, ECOSYSTEMS, V7, P793, DOI 10.1007/S10021-004-0274-9##MALMER N, 1994, FOLIA GEOBOT PHYTOTX, V29, P483, DOI 10.1007/BF02883146##MALMER N, 1980, ECOLOGICAL B, V30, P63##MALMER N, 1993, ADV BRYOL, P5223##MCKENZIE JM, 2005, WETLAND GEOCHEMICAL, V7##MOORE TR, 1987, CAN J EARTH SCI, V24, P1352, DOI 10.1139/E87-129##PIETERS GJM, 2004, THESIS EINDHOVEN U T##RAPPOLDT C, 2003, P NATL ACAD SCI USA, V100, P14937, DOI 10.1073/PNAS.1936122100##ROSWALL T., 1980, ECOLOGICAL B, V30, P209##RYDIN H, 1989, PROC R SOC SER B-BIO, V237, P63, DOI 10.1098/RSPB.1989.0037##SMOLDERS AJP, 2001, NEW PHYTOL, V152, P325, DOI 10.1046/J.0028-646X.2001.00261.X##SUNDH I, 1995, SOIL BIOL BIOCHEM, V27, P829, DOI 10.1016/0038-0717(94)00222-M##TOMASSEN HBM, 2004, J APPL ECOL, V41, P139, DOI 10.1111/J.1365-2664.2004.00870.X##VANBREEMEN N, 1995, TRENDS ECOL EVOL, V10, P270, DOI 10.1016/0169-5347(95)90007-1##VANGEMERDEN H, 1989, FEMS MICROBIOL ECOL, V62, P87, DOI 10.1016/0378-1097(89)90018-9##VANWIRDUM G, 1983, DEV TECHNIQUES ECOHY, P21##VERHOEVEN JTA, 1990, J ECOL, V78, P713, DOI 10.2307/2260894

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WOS:000366771600002

2015

GENDER DIFFERENCES IN RELATIONSHIP PREFERENCES AFTER UNION DISSOLUTION

WOMEN LESS OFTEN REMARRY OR COHABIT AGAIN AFTER UNION DISSOLUTION THAN MEN. TO DEVELOP OUR UNDERSTANDING OF THIS GENDER GAP, WE LOOK AT MEN'S AND WOMEN'S RELATIONSHIP PREFERENCES FOLLOWING THE DISSOLUTION OF MARITAL AND COHABITING UNIONS. USING THE DUTCH GENERATIONS AND GENDER SURVEY STUDY (N = 973), RESULTS SHOW THAT DIVORCED OR SEPARATED WOMEN LESS OFTEN WANT TO LIVE WITH A PARTNER AGAIN THAN MEN, AND THIS HOLDS FOR BOTH SINGLES AND PERSONS WITH A STEADY PARTNER. MEN AND WOMEN GENERALLY DO NOT DIFFER IN THEIR DESIRE TO MARRY, EXCEPT WHEN THEY COHABIT. COHABITING WOMEN EXPRESS A WEAKER DESIRE FOR MARRIAGE THAN COHABITING MEN. OVERALL, WE FIND WOMEN ARE LESS WILLING THAN MEN TO PROCEED TO THE NEXT STEP IN A RELATIONSHIP FROM DATING, TO LIVING TOGETHER, TO MARRIAGE. CHILDREN FROM PREVIOUS RELATIONSHIPS ARE PIVOTAL FOR BOTH MEN'S AND WOMEN'S RELATIONSHIP PREFERENCES. HAVING (YOUNG) RESIDENT PRIOR CHILDREN ATTENUATES WOMEN'S DESIRE TO LIVE TOGETHER, WHEREAS FOR MEN IT IS THE FREQUENCY OF CONTACT WITH NON-RESIDENT PRIOR CHILDREN THAT MATTERS. BECAUSE WOMEN MORE OFTEN THAN MEN HAVE PRIMARY CARE OF CHILDREN AFTER DIVORCE OR SEPARATION, THE GENDER DIFFERENCE IN THE DESIRE TO LIVE WITH ANOTHER PARTNER IS LARGELY EXPLAINED BY WOMEN'S GREATER INVOLVEMENT WITH CHILDREN FROM PREVIOUS RELATIONSHIPS. WE CONCLUDE THAT UNDERSTANDING PREFERENCES CAN PROVIDE BETTER INSIGHT INTO GENDERED DIFFERENCES IN RELATIONSHIP FORMATION AFTER UNION DISSOLUTION. (C) 2015 ELSEVIER LTD. ALL RIGHTS RESERVED.

ECONOMIC CONSEQUENCES; MENTAL-HEALTH; DIVORCE; REMARRIAGE; MARRIAGE; CHILDREN; SEPARATION; CAREER; DESIRE; WOMEN

NA

ADVANCES IN LIFE COURSE RESEARCH

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SOCIAL SCIENCES, INTERDISCIPLINARY

SOCIAL SCIENCES - OTHER TOPICS

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2020-11-29

NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO)NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO) [480-10-009]; NETHERLANDS INTERDISCIPLINARY DEMOGRAPHIC INSTITUTE (NIDI), UTRECHT UNIVERSITY; UNIVERSITY OF AMSTERDAM; TILBURG UNIVERSITY

UNIV UTRECHT#UNIV QUEENSLAND

NETHERLANDS#AUSTRALIA

72

J

WOS:000241999300005

2006

ANALYSIS OF THE REPORT ""HOMEOPATHY, A SOLUTION FOR CALF DIARRHOEA!""

NA

NA

NA

TIJDSCHRIFT VOOR DIERGENEESKUNDE

LUMEIJ, JT##TESKE, E##PELLICAAN, CHP

UNIV UTRECHT, FAC DIERGENEESKUNDE, DEPT GEZELSCHAPSDIEREN, NL-3508 TC UTRECHT, NETHERLANDS.

VETERINARY SCIENCES

VETERINARY SCIENCES

NA

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2020-11-20

NA

UNIV UTRECHT

NETHERLANDS

170

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WOS:000380558700089

2014

CROWD-CENTRIC REQUIREMENTS ENGINEERING

REQUIREMENTS ENGINEERING IS A PRELIMINARY AND CRUCIAL PHASE FOR THE CORRECTNESS AND QUALITY OF SOFTWARE SYSTEMS. DESPITE THE AGREEMENT ON THE POSITIVE CORRELATION BETWEEN USER INVOLVEMENT IN REQUIREMENTS ENGINEERING AND SOFTWARE SUCCESS, CURRENT DEVELOPMENT METHODS EMPLOY A TOO NARROW CONCEPT OF THAT ""USER"" AND RELY ON A RECRUITED SET OF USERS CONSIDERED TO BE REPRESENTATIVE. SUCH APPROACHES MIGHT NOT CATER FOR THE DIVERSITY AND DYNAMISM OF THE ACTUAL USERS AND THE CONTEXT OF SOFTWARE USAGE. THIS IS ESPECIALLY TRUE IN NEW PARADIGMS SUCH AS CLOUD AND MOBILE COMPUTING. TO OVERCOME THESE LIMITATIONS, WE PROPOSE CROWD-CENTRIC REQUIREMENTS ENGINEERING (CCRE) AS A REVISED METHOD FOR REQUIREMENTS ENGINEERING WHERE USERS BECOME PRIMARY CONTRIBUTORS, RESULTING IN HIGHER-QUALITY REQUIREMENTS AND INCREASED USER SATISFACTION. CCRE RELIES ON CROWDSOURCING TO SUPPORT A BROADER USER INVOLVEMENT, AND ON GAMIFICATION TO MOTIVATE THAT VOLUNTARY INVOLVEMENT.

NA

NA

2014 IEEE/ACM 7TH INTERNATIONAL CONFERENCE ON UTILITY AND CLOUD COMPUTING (UCC)

SNIJDERS, R##DALPIAZ, F##HOSSEINI, M##SHAHRI, A##ALI, R

[SNIJDERS, REMCO; DALPIAZ, FABIANO] UNIV UTRECHT, DEPT INFORMAT & COMP SCI, NL-3508 TC UTRECHT, NETHERLANDS. [HOSSEINI, MAHMOOD; SHAHRI, ALIMOHAMMAD; ALI, RAIAN] BOURNEMOUTH UNIV, FAC SCI & TECHNOL, POOLE BH12 5BB, DORSET, ENGLAND.

COMPUTER SCIENCE, THEORY & METHODS; ENGINEERING, ELECTRICAL & ELECTRONIC

COMPUTER SCIENCE; ENGINEERING

ADEPETU A., 2012, P AAAI SPRING S WISD##CHEMUTURI M., 2013, REQUIREMENTS ENG MAN##HOSSEINI M., 2014, P EMP TRACK REFSQ 20, P82##KUJALA S, 2005, 13TH IEEE INTERNATIONAL CONFERENCE ON REQUIREMENTS ENGINEERING, PROCEEDINGS, P75, DOI 10.1109/RE.2005.72##LIM SL, 2012, IEEE T SOFTWARE ENG, V38, P707, DOI 10.1109/TSE.2011.36##NUSEIBEH, 2000, P C FUT SOFTW ENG, P35, DOI DOI 10.1145/336512.336523##THE STANDISH GROUP, 2009, TECH REP##VLAANDEREN K, 2011, INFORM SOFTWARE TECH, V53, P58, DOI 10.1016/J.INFSOF.2010.08.004##ZAVE P, 1997, ACM COMPUT SURV, V29, P315, DOI 10.1145/267580.267581

15

2020-11-27

NA

UNIV UTRECHT#BOURNEMOUTH UNIV

NETHERLANDS#ENGLAND

598

B

WOS:000392617100053

2014

MECHANISTIC MODELS FOR HEALTHCARE: A REVIEW OF CURRENT PRACTICE AND POSSIBILITIES

BIOMEDICAL THEORY IS OFTEN EXPRESSED IN FORMAL, USUALLY DYNAMIC MATHEMATICAL MODELS. HOWEVER, THESE MODELS RARELY FIND THEIR WAY INTO CLINICAL PRACTICE. WE REVIEW A NUMBER OF PROJECTS WHERE MODELS OF THE UNDERLYING SYSTEM ARE PUT TO USE TO IMPROVE HEALTHCARE AND FIND THAT SUCH AN APPROACH CAN HAVE ADVANTAGES ABOVE ALTERNATIVE STRATEGIES. WE DISCUSS THE OBSTACLES TO THIS APPROACH AND WE CONCLUDE THAT IT CAN FIT IN THE PARADIGM OF EVIDENCE-BASED MEDICINE.

DECISION-SUPPORT

PREDICTION; DECISION SUPPORT; MODELLING

PROCEEDINGS OF THE INTERNATIONAL CONFERENCES ON ICT, SOCIETY AND HUMAN BEINGS 2014, WEB BASED COMMUNITIES AND SOCIAL MEDIA 2014, E-COMMERCE 2014, INFORMATION SYSTEMS POST-IMPLEMENTATION AND CHANGE MANAGEMENT 2014 AND E-HEALTH 2014

CACE, I##MEYER, JJC

[CACE, IVANA] ALAN TURING INST ALMERE, LOUIS ARMSTRONGWEG 84, NL-1311 RL ALMERE, NETHERLANDS. [MEYER, JOHN-JULES CH.] UNIV UTRECHT, ALAN TURING INST ALMERE, INTELLIGENT SYST GRP, ICS, PRINCETONPL 5, NL-3584 CC UTRECHT, NETHERLANDS.

COMPUTER SCIENCE, INFORMATION SYSTEMS; COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS; SOCIAL SCIENCES, INTERDISCIPLINARY

COMPUTER SCIENCE; SOCIAL SCIENCES - OTHER TOPICS

ANDREASSEN S. &, 1994, ROLE MODEL BASED SYS, P310##CACE I., 2013, ENCAPSULATED MODELS, P1821##CLARKE B, 2014, TOPOI-INT REV PHILOS, V33, P339, DOI 10.1007/S11245-013-9220-9##DOCHERTY PD, 2011, COMPUT METH PROG BIO, V102, P94, DOI 10.1016/J.CMPB.2010.08.002##GUYATT GH, 2011, J CLIN EPIDEMIOL, V64, P1294, DOI 10.1016/J.JCLINEPI.2011.03.017##HALL KD, 2011, LANCET, V378, P826, DOI 10.1016/S0140-6736(11)60812-X##HOLZHUTTER HG, 2012, WIRES SYST BIOL MED, V4, P221, DOI 10.1002/WSBM.1158##HUNTER PJ, 2003, NAT REV MOL CELL BIO, V4, P237, DOI 10.1038/NRM1054##INSEL TR, 2013, SCIENCE, V340, P687, DOI 10.1126/SCIENCE.1239276##KOVATCHEV BORIS P, 2009, J DIABETES SCI TECHNOL, V3, P44##LEHMANN ED, 1998, COMPUT METH PROG BIO, V56, P193, DOI 10.1016/S0169-2607(98)00025-X##LEVELS OF EVIDENCE WORKING GROUP, 2011, OXF LEV EV, V2##MAN CD, 2007, IEEE T BIO-MED ENG, V54, P1740, DOI 10.1109/TBME.2007.893506##MONTANI S, 2003, ARTIF INTELL MED, V29, P131, DOI 10.1016/S0933-3657(03)00045-9##REES S. E., 2011, INTELLIGENT VENTILAT##REES STEPHEN E, 2011, COMPUT METHODS PROGRAMS BIOMED, V104 SUPPL 1, PS1, DOI 10.1016/S0169-2607(11)00307-5##REES STEPHEN EDWARD, 2002, J CLIN MONIT COMPUT, V17, P43, DOI 10.1023/A:1015456818195##SALZSIEDER E, 2011, COMPUT METH PROG BIO, V102, P206, DOI 10.1016/J.CMPB.2010.06.001##SALZSIEDER ECKHARD, 2011, J DIABETES SCI TECHNOL, V5, P13##WAKELAND W, 2008, COMPUT BIOL MED, V38, P1024, DOI 10.1016/J.COMPBIOMED.2008.07.004

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2020-11-27

NA

ALAN TURING INST ALMERE#UNIV UTRECHT

NETHERLANDS#NETHERLANDS

222

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WOS:000421641500024

2014

CATENA-POLY[[TRIAQUAMAGNESIUM]-MU(2)-MALONATO]

IN THE TITLE COMPOUND, [MG(C3H2O4)(H2O)(3)](N), THE METAL ATOM IS IN AN OCTAHEDRAL ENVIRONMENT. THE OCTAHEDRA ARE CONNECTED BY MALONATE ANIONS, FORMING CHAINS ALONG THE C-AXIS DIRECTION. O-H CENTER DOT CENTER DOT CENTER DOT O HYDROGEN BONDS LINK THESE CHAINS INTO A THREEDIMENSIONAL NETWORK.

NA

NA

ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS

DE KLIJN, T##LUTZ, M

[DE KLIJN, TIM; LUTZ, MARTIN] UNIV UTRECHT, FAC SCI, BIJVOET CTR BIOMOL RES CRYSTAL & STRUCT CHEM, PADUALAAN 8, NL-3584 CH UTRECHT, NETHERLANDS.

CRYSTALLOGRAPHY

CRYSTALLOGRAPHY

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2020-11-27

NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO)NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO)

UNIV UTRECHT

NETHERLANDS

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WOS:000209838203631

2014

PROLYL ENDOPEPTIDASE INHIBITION AMELIORATES CARDIOVASCULAR CHANGES IN A SMOKING MOUSE MODEL

NA

NA

NA

AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE

RODA, MA##XU, X##JACKSON, PL##FOLKERTS, G##REDEGELD, F##WELLS, JM##MCNICHOLAS-BEVENSEE, CM##VIERA, L##BEZEMER, G##BLALOCK, JE##GAGGAR, A

[RODA, M. ABDUL; XU, X.; JACKSON, P. L.; WELLS, J. M.; MCNICHOLAS-BEVENSEE, C. M.; VIERA, L.; BLALOCK, J. E.; GAGGAR, A.] UNIV ALABAMA BIRMINGHAM, BIRMINGHAM, AL USA. [FOLKERTS, G.; REDEGELD, F.; BEZEMER, G.] UNIV UTRECHT, UTRECHT, NETHERLANDS.

CRITICAL CARE MEDICINE; RESPIRATORY SYSTEM

GENERAL & INTERNAL MEDICINE; RESPIRATORY SYSTEM

NA

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2020-11-27

NA

UNIV ALABAMA BIRMINGHAM#UNIV UTRECHT

AL USA#NETHERLANDS

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WOS:000242941700023

2006

NATURALLY OCCURRING ESTROGENS IN PROCESSED MILK AND IN RAW MILK (FROM GESTATED COWS)

THE OCCURRENCE OF THE STEROID HORMONES ESTRONE (E-1), 17 ALPHA-ESTRADIOL (ALPHA E-2), 17 BETA-ESTRADIOL (BETA E-2), AND ESTRIOL (E-3) IN PROCESSED BOVINE MILK WITH DIFFERENT FAT CONTENTS AND IN RAW MILK FROM (NON)GESTATED COWS WAS INVESTIGATED. FOLLOWING LIQUID EXTRACTION, OPTIONAL ENZYMATICAL DECONJUGATION, C-18 SOLID-PHASE EXTRACTION, AND DERIVATIZATION, ESTROGENS WERE ANALYZED USING LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY (LC-MS/MS). FREE AND DECONJUGATED E-1 (6.2-1266 NG/L) WAS THE MAJOR ESTROGEN FOLLOWED BY ALPHA E-2 (7.2-322 NG/L) AND BETA E-2 (5.6-51 NG/L), WHEREAS E-3 WAS DETECTED REGULARLY AT THE DETECTION LIMIT OF 10 NG/L. THE LOWEST AND HIGHEST CONCENTRATIONS WERE DETERMINED IN RAW MILK FROM NONPREGNANT AND FROM COWS IN THE THIRD TRIMESTER OF GESTATION, RESPECTIVELY. THE ESTROGEN CONCENTRATION IN PROCESSED MILK COINCIDES WITH THAT OF RAW MILK BETWEEN FIRST AND SECOND TRIMESTERS, REFLECTING THE CONTRIBUTION OF LACTATING PREGNANT COWS TO THE FINAL CONSUMABLE PRODUCT. THE DAILY INTAKE OF TOTAL INVESTIGATED ESTROGENS THROUGH MILK IS 372 NG, WHICH IS DRAMATICALLY MORE THAN CURRENTLY RECOGNIZED.

ESTRONE SULFATE; MAMMARY-GLAND; FOOD; HORMONES; CANCER; PHYTOESTROGENS; SECRETION; ESTRADIOL; PLASMA; HEALTH

ENDOCRINE DISRUPTORS; FOOD SAFETY; STEROID HORMONES; ESTROGENIC ACTIVITY IN FOOD; VETERINARY PUBLIC HEALTH

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY

MALEKINEJAD, H##SCHERPENISSE, P##BERGWERFF, AA

UNIV UTRECHT, VET PUBL HLTH DIV, INST RISK ASSESSMENT SCI, NL-3508 TD UTRECHT, NETHERLANDS.

AGRICULTURE, MULTIDISCIPLINARY; CHEMISTRY, APPLIED; FOOD SCIENCE & TECHNOLOGY

AGRICULTURE; CHEMISTRY; FOOD SCIENCE & TECHNOLOGY

ANARI MR, 2002, ANAL CHEM, V74, P4136, DOI 10.1021/AC025712H##ANDERSSON AM, 1999, EUR J ENDOCRINOL, V140, P477, DOI 10.1530/EJE.0.1400477##DAXENBERGER A, 2001, HUM REPROD UPDATE, V7, P340, DOI 10.1093/HUMUPD/7.3.340##DELOUIS C, 1980, J DAIRY SCI, V63, P1492, DOI 10.3168/JDS.S0022-0302(80)83110-9##ERB RE, 1977, J ANIM SCI, V45, P617##\*EU COMM, 2002, OFF J EUR COMMUNIT L, V221##FORMAN D, 1994, CANCER SURV, V20, P323##FRITSCHE S, 1999, EUR FOOD RES TECHNOL, V209, P153, DOI 10.1007/S002170050475##GANMAA D, 2006, INT J CANCER, V118, P2363, DOI 10.1002/IJC.21659##GANMAA D, 2004, FERTIL STERIL, V82, P1106, DOI 10.1016/J.FERTNSTERT.2004.05.073##GANMAA D, 2005, MED HYPOTHESES, V65, P1028, DOI 10.1016/J.MEHY.2005.06.026##HARTMANN S, 1998, FOOD CHEM, V62, P7, DOI 10.1016/S0308-8146(97)00150-7##HEAP RB, 1979, BRIT VET J, V135, P462, DOI 10.1016/S0007-1935(17)32794-X##HEAP RB, 1984, J ENDOCRINOL, V101, P221, DOI 10.1677/JOE.0.1010221##HEAP RB, 1979, BRIT VET J, V135, P355, DOI 10.1016/S0007-1935(17)32838-5##JANOWSKI T, 2002, DOMEST ANIM ENDOCRIN, V23, P125, DOI 10.1016/S0739-7240(02)00151-0##LI JJ, 1995, CANCER RES, V55, P4347##LIEHR JG, 2000, ENDOCR REV, V21, P40, DOI 10.1210/ER.21.1.40##LIMER JL, 2006, INT J CANCER, V119, P515, DOI 10.1002/IJC.21863##MACDONALD IA, 1983, J LIPID RES, V24, P675##MALEKINEJAD H, 2005, VET RES, V36, P799, DOI 10.1051/VETRES:2005034##MCGARRIGLE HHG, 1983, J STEROID BIOCHEM, V18, P607, DOI 10.1016/0022-4731(83)90139-5##QIN LQ, 2004, MED HYPOTHESES, V62, P133, DOI 10.1016/S0306-9877(03)00295-0##REMESAR X, 1999, EUR J NUTR, V38, P247, DOI 10.1007/S003940050068##SCHAMS D, 1986, ANN NY ACAD SCI, V464, P75, DOI 10.1111/J.1749-6632.1986.TB15995.X##STEPHANY RW, 2004, P EUR 5 C NOORDW MAY##WALKER FMM, 1983, BRIT VET J, V139, P171##WOLFORD ST, 1979, J DAIRY SCI, V62, P1458, DOI 10.3168/JDS.S0022-0302(79)83446-3##XU X, 2004, ANAL CHEM, V76, P5829, DOI 10.1021/AC049405I##ZIERAU O, 2006, PLANTA MED, V72, P184, DOI 10.1055/S-2005-873182

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2020-11-20

NA

UNIV UTRECHT

NETHERLANDS

710

J

WOS:000366539700046

2015

THE SLANICUL DE BUZAU SECTION, A UNIT STRATOTYPE FOR THE ROMANIAN STAGE OF THE DACIAN BASIN (PLIO-PLEISTOCENE, EASTERN PARATETHYS)

CLIMATIC CHANGES CAUSE LARGE PALEOENVIRONMENTAL RESPONSES IN SEMI-ISOLATED BASINS. WE ANALYZE HERE THE SEDIMENTARY SUCCESSIONS OF THE DACIAN BASIN (ROMANIA) TO EVALUATE LATE PLIOCENE AND EARLY PLEISTOCENE PALEOENVIRONMENTAL CHANGES THROUGH MACRO- AND MICROPALEONTOLOGY. THESE CHANGES ARE DATED BY CREATING A MAGNETOSTRATIGRAPHIC TIME FRAME FOR TWO LONG AND CONTINUOUS SECTIONS WITH A COMBINED TOTAL THICKNESS OF 2850 M. THE STUDIED SUCCESSION SPANS THE TIME INTERVAL BETWEEN 4.7 MA AND 1.6 MA AND RECORDS BOTH THE MID PLIOCENE WARM PERIOD (3.3-2.9 MA) AND THE ONSET OF LARGE-SCALE GLACIATIONS ON THE NORTHERN HEMISPHERE (SIMILAR TO 2.7 MA). DUE TO PROGRESSIVE BASIN INFILL, THE PALEOENVIRONMENT CHANGES FROM BRACKISH TO FLUVIO-LACUSTRINE WITH A MAJOR EXTINCTION EVENT OF LYMNOCARDIINE BIVALVES AROUND 4.15 MA. RICH AND DOMINANTLY FRESHWATER MOLLUSK AND OSTRACOD FAUNAS DEVELOP FROM THIS MOMENT ONWARDS. BETWEEN 3.2 MA AND 2.95 MA, THE REAPPEARANCE OF LYMNOCARDIINES IDENTIFIES A SHORT MOMENT OF HIGHER SALINITIES, THE PREVIOUSLY IDENTIFIED PLESCOI EVENT. IN TIME, THIS CORRELATES CLOSELY TO THE WARMEST INTERVAL OF THE PLIOCENE, AND IS THEREFORE MOST LIKELY RELATED TO CONNECTIVITY TO THE BLACK SEA DURING MAXIMUM SEA-LEVEL. AFTER THE CLIMATIC OPTIMUM, DEPOSITION CONTINUES IN A FLUVIO-DELTAIC SETTING WITH ONLY SCARCE FINDS OF FAUNA. INCREASING AMOUNTS OF COARSE GRAINED FLUVIAL SEDIMENTS SHOW A CLOSE RELATIONSHIP WITH THE PROGRESSIVE COOLING DURING THE PLEISTOCENE. (C) 2015 ELSEVIER B.V. ALL RIGHTS RESERVED.

SEA-LEVEL; CARPATHIAN FOREDEEP; LATE MIOCENE; BEND ZONE; PLIOCENE; PLEISTOCENE; EUROPE; EVOLUTION; GREIGITE; SCALE

PARATETHYS; CARPATHIAN FOREDEEP; PLIO-PLEISTOCENE; MAGNETOSTRATIGRAPHY; OSTRACODS; MOLLUSKS

PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY

VAN BAAK, CGC##MANDIC, O##LAZAR, I##STOICA, M##KRIJGSMAN, W

[VAN BAAK, CHRISTIAAN G. C.; KRIJGSMAN, WOUT] UNIV UTRECHT, PALAEOMAGNET LAB FT HOOFDDIJK, NL-3584 CD UTRECHT, NETHERLANDS. [MANDIC, OLEG] NAT HIST MUSEUM VIENNA, DEPT GEOL & PALAEONTOL, A-1010 VIENNA, AUSTRIA. [LAZAR, IULIANA; STOICA, MARIUS] UNIV BUCHAREST, FAC GEOL & GEOPHYS, DEPT GEOL, BUCHAREST 010041, ROMANIA.

GEOGRAPHY, PHYSICAL; GEOSCIENCES, MULTIDISCIPLINARY; PALEONTOLOGY

PHYSICAL GEOGRAPHY; GEOLOGY; PALEONTOLOGY

AGALAROVA D. 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NETHERLANDS RESEARCH CENTER FOR INTEGRATED SOLID EARTH SCIENCES (ISES); NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO)NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO); AUSTRIAN SCIENCE FUNDAUSTRIAN SCIENCE FUND (FWF) [FWF - P25365-B25]

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2015

POTENTIAL ACTIVITY, SIZE, AND STRUCTURE OF SULFATE-REDUCING MICROBIAL COMMUNITIES IN AN EXPOSED, GRAZED AND A SHELTERED, NON-GRAZED MANGROVE STAND AT THE RED SEA COAST

AFTER OXYGEN, SULFATE IS THE MOST IMPORTANT OXIDANT FOR THE OXIDATION OF ORGANIC MATTER IN MANGROVE FOREST SOILS. AS SULFATE REDUCERS ARE POOR COMPETITORS FOR COMMON ELECTRON DONORS, THEIR RELATIVE SUCCESS DEPENDS MOSTLY ON THE SURPLUS OF CARBON THAT IS LEFT BY AEROBIC ORGANISMS DUE TO OXYGEN DEPLETION. WE THEREFORE HYPOTHESIZED THAT SULFATE-CYCLING IN MANGROVE SOILS IS INFLUENCED BY THE SIZE OF NET PRIMARY PRODUCTION, AND HENCE NEGATIVELY AFFECTED BY MANGROVE DEGRADATION AND EXPLOITATION, AS WELL AS BY CARBON EXPORTING WAVES. TO TEST THIS, WE COMPARED QUANTITATIVE AND QUALITATIVE TRAITS OF SULFATE-REDUCING COMMUNITIES IN TWO SAUDI-ARABIAN MANGROVE STANDS NEAR JEDDAH, WHERE COOCCURRING DIFFERENCES IN CAMEL-GRAZING PRESSURE AND TIDAL EXPOSURE LED TO A MARKEDLY DIFFERENT STAND HEIGHT AND HENCE PRIMARY PRODUCTION. POTENTIAL SULFATE REDUCTION RATES MEASURED IN ANOXIC FLOW-THROUGH REACTORS IN THE ABSENCE AND PRESENCE OF ADDITIONAL CARBON SOURCES WERE SIGNIFICANTLY HIGHER IN THE SAMPLES FROM THE NON-GRAZED SITE. NEAR THE SURFACE (0-2 CM DEPTH), NUMBERS OF DSRB GENE COPIES AND CULTURABLE CELLS ALSO TENDED TO BE HIGHER IN THE NON GRAZED SITES, WHILE THESE DIFFERENCES WERE NOT DETECTED IN THE SUB-SURFACE (4-6 CM DEPTH). IT WAS CONCLUDED THAT SULFATE-REDUCING MICROBES AT THE SURFACE WERE INDEED REPRESSED AT THE LOW-PRODUCTIVE SITE AS COULD BE EXPECTED FROM OUR HYPOTHESIS. AT BOTH SITES, SULFATE REDUCTION RATES AS WELL AS NUMBERS OF THE DSRB GENE COPIES AND VIABLE CELLS INCREASED WITH DEPTH SUGGESTING REPRESSION OF SULFATE REDUCTION NEAR THE SURFACE IN BOTH IRRESPECTIVE OF PRODUCTION LEVEL. ADDITIONALLY, SEQUENCE ANALYSIS OF DNA BANDS OBTAINED FROM DGGE GELS BASED ON THE DSRB GENE, SHOWED A CLEAR DIFFERENCE IN DOMINANCE OF SULFATE-REDUCING GENERA BELONGING TO THE DELTAPROTEOBACTERIA AND THE FIRMICUTES BETWEEN SAMPLING SITES AND DEPTHS.

GEN. NOV.; BENTHIC METABOLISM; AVICENNIA-MARINA; ORGANIC-CARBON; FATTY-ACIDS; DIVERSITY; BACTERIA; REDUCTION; PROKARYOTES; COMPLEX

SULFATE REDUCTION; MANGROVES; AVICENNIA MARINA; CAMEL-GRAZING; DGGE FINGERPRINTING

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2020-11-29

KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (KAUST) CENTER-IN-DEVELOPMENT AWARDKING ABDULLAH UNIVERSITY OF SCIENCE & TECHNOLOGY; NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO)/USER SUPPORT PROGRAM SPACE RESEARCHNETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO) [ALW-GO/12-43]

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2015

THE TOTAL COST OF REARING A HEIFER ON DUTCH DAIRY FARMS: CALCULATED VERSUS PERCEIVED COST

BACKGROUND: AS FARMERS DO NOT OFTEN KEEP A RECORD OF THE EXPENDITURES FOR REARING, AN ECONOMIC TOOL THAT PROVIDES INSIGHT INTO THE COST OF REARING IS USEFUL. IN THE NETHERLANDS, AN ECONOMIC TOOL (JONKOS) HAS BEEN DEVELOPED THAT CAN BE USED BY FARMERS TO OBTAIN INSIGHT INTO THE COST OF REARING ON THEIR FARM. THE FIRST OBJECTIVE OF THIS STUDY IS TO CALCULATE THE TOTAL COST OF REARING YOUNG STOCK IN DUTCH DAIRY HERDS USING JONKOS. THE SECOND OBJECTIVE IS TO COMPARE THE CALCULATED TOTAL COST OF REARING WITH THE FARMERS' OWN ESTIMATION OF THE COST OF REARING (THE PERCEIVED COST). FINDINGS: INFORMATION WAS AVAILABLE FOR 75 HERDS THAT REARED THEIR OWN YOUNG STOCK AND WHO HAD USED THE JONKOS TOOL. THE PERCEIVED COST OF REARING YOUNG STOCK WAS ONLY AVAILABLE FOR 36 HERDS. IN THE 75 HERDS, THE AVERAGE HERD SIZE WAS 100 DAIRY COWS. THE AVERAGE CALCULATED TOTAL COST OF REARING A HEIFER WAS (SIC)1,790. THE AVERAGE PERCEIVED TOTAL COST OF REARING A HEIFER (INCLUDING LABOUR AND HOUSING COSTS) WAS (SIC)1,030. CONCLUSION: MOST DUTCH FARMERS IN THE STUDY UNDERESTIMATED THE TOTAL COST OF REARING. THE JONKOS ECONOMIC TOOL HAS THE ADVANTAGE THAT HERD-SPECIFIC INFORMATION CAN BE ENTERED AS INPUT VALUES. THE OUTPUT OF THE TOOL CAN IMPROVE THE AWARENESS OF FARMERS ABOUT THE TOTAL COSTS OF REARING. THIS AWARENESS CAN LEAD TO A HIGHER PRIORITY OF YOUNG STOCK REARING AND CONSEQUENTLY TO AN IMPROVED QUALITY OF YOUNG STOCK REARING.

NETHERLANDS

COSTS; DAIRY; YOUNG STOCK; ECONOMICS

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2006

A RESEARCH APPROACH TO DESIGNING CHEMISTRY EDUCATION USING AUTHENTIC PRACTICES AS CONTEXTS

WE DISCUSS HOW TO REDUCE THE INCONGRUENCE BETWEEN THE OUTCOMES ( BOTH COGNITIVE AND AFFECTIVE) OF THE CONVENTIONAL SECONDARY CHEMISTRY CURRICULUM AND WHAT IS TO BE ATTAINED: THE MEANINGFUL CONNECTION OF STUDENTS' LEARNING TO DAILY LIFE AND SOCIETAL ISSUES. THIS PROBLEM IS ADDRESSED BY A DESIGN STUDY WITH ONE CURRICULUM UNIT ABOUT ""WATER QUALITY"". WITH SEVERAL RESEARCH CYCLES USING DEVELOPMENTAL RESEARCH, WE DEVELOPED AN EMERGENT UNDERSTANDING ABOUT AN INSTRUCTIONAL FRAMEWORK FOR CURRICULUM UNITS THAT EMBODIES A COHERENT ""NEED-TO-KNOW"" PRINCIPLE AND IS BASED ON AUTHENTIC PRACTICES. USING THIS FRAMEWORK WE SHOW WITH SOME OTHER EXAMPLES HOW A CONTEXT-BASED CHEMISTRY CURRICULUM CAN BE CONSTRUCTED BASED ON THE DEVELOPED ""NEED-TO-KNOW"" PRINCIPLE.

SCIENCE; CURRICULUM

NA

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ONE FUNGUS, WHICH GENES? DEVELOPMENT AND ASSESSMENT OF UNIVERSAL PRIMERS FOR POTENTIAL SECONDARY FUNGAL DNA BARCODES

THE AIM OF THIS STUDY WAS TO ASSESS POTENTIAL CANDIDATE GENE REGIONS AND CORRESPONDING UNIVERSAL PRIMER PAIRS AS SECONDARY DNA BARCODES FOR THE FUNGAL KINGDOM, ADDITIONAL TO ITS RDNA AS PRIMARY BARCODE. AMPLIFICATION EFFICIENCIES OF 14 (PARTIALLY) UNIVERSAL PRIMER PAIRS TARGETING EIGHT GENETIC MARKERS WERE TESTED ACROSS > 1 500 SPECIES (1 931 STRAINS OR SPECIMENS) AND THE OUTCOMES OF ALMOST TWENTY THOUSAND (19 577) POLYMERASE CHAIN REACTIONS WERE EVALUATED. WE TESTED SEVERAL WELL-KNOWN PRIMER PAIRS THAT AMPLIFY: I) SECTIONS OF THE NUCLEAR RIBOSOMAL RNA GENE LARGE SUBUNIT (D1-D2 DOMAINS OF 26/28S); II) THE COMPLETE INTERNAL TRANSCRIBED SPACER REGION (ITS1/2); III) PARTIAL BETA-TUBULIN II (TUB2); IV) GAMMA-ACTIN (ACT); V) TRANSLATION ELONGATION FACTOR 1-ALPHA (TEF1 ALPHA); AND VI) THE SECOND LARGEST SUBUNIT OF RNA-POLYMERASE II (PARTIAL RPB2, SECTION 5-6). THEIR PCR EFFICIENCIES WERE COMPARED WITH NOVEL CANDIDATE PRIMERS CORRESPONDING TO: I) THE FUNGAL-SPECIFIC TRANSLATION ELONGATION FACTOR 3 (TEF3); II) A SMALL RIBOSOMAL PROTEIN NECESSARY FOR T-RNA DOCKING; III) THE 60S L10 (L1) RP; IV) DNA TOPOISOMERASE I (TOPI); V) PHOSPHOGLYCERATE KINASE (PGK); VI) HYPOTHETICAL PROTEIN LNS2; AND VII) ALTERNATIVE SECTIONS OF TEF1 ALPHA. RESULTS SHOWED THAT SEVERAL GENE SECTIONS ARE ACCESSIBLE TO UNIVERSAL PRIMERS (OR PRIMERS UNIVERSAL FOR PHYLA) YIELDING A SINGLE PCR-PRODUCT. BARCODE GAP AND MULTI-DIMENSIONAL SCALING ANALYSES REVEALED THAT SOME OF THE TESTED CANDIDATE MARKERS HAVE UNIVERSAL PROPERTIES PROVIDING ADEQUATE INFRA- AND INTER-SPECIFIC VARIATION THAT MAKE THEM ATTRACTIVE BARCODES FOR SPECIES IDENTIFICATION. AMONG THESE GENE SECTIONS, A NOVEL HIGH FIDELITY PRIMER PAIR FOR TEF1 ALPHA, ALREADY WIDELY USED AS A PHYLOGENETIC MARKER IN MYCOLOGY, HAS POTENTIAL AS A SUPPLEMENTARY DNA BARCODE WITH SUPERIOR RESOLUTION TO ITS. BOTH TOPI AND PGK SHOW PROMISE FOR THE ASCOMYCOTA, WHILE TOPI AND LNS2 ARE ATTRACTIVE FOR THE PUCCINIOMYCOTINA, FOR WHICH UNIVERSAL PRIMERS FOR RIBOSOMAL SUBUNITS OFTEN FAIL.

RIBOSOMAL DNA; BASIDIOMYCETOUS YEASTS; SEQUENCE-ANALYSIS; ACTIN GENE; IDENTIFICATION; RNA; PHYLOGENY; EVOLUTION; NUCLEAR; TOOL

DNA BARCODING; ITS SUPPLEMENT; MOLECULAR TAXONOMY; PHYLOGENY; SPECIES IDENTIFICATION; UNIVERSAL PRIMERS

PERSOONIA

STIELOW, JB##LEVESQUE, CA##SEIFERT, KA##MEYER, W##IRINYI, L##SMITS, D##RENFURM, R##VERKLEY, GJM##GROENEWALD, M##CHADULI, D##LOMASCOLO, A##WELTI, S##LESAGE-MEESSEN, L##FAVEL, A##AL-HATMI, AMS##DAMM, U##YILMAZ, N##HOUBRAKEN, J##LOMBARD, L##QUAEDVLIEG, W##BINDER, M##VAAS, LAI##VU, D##YURKOV, A##BEGEROW, D##ROEHL, O##GUERREIRO, M##FONSECA, A##SAMERPITAK, K##VAN DIEPENINGEN, AD##DOLATABADI, S##MORENO, LF##CASAREGOLA, S##MALLET, S##JACQUES, N##ROSCINI, L##EGIDI, E##BIZET, C##GARCIA-HERMOSO, D##MARTIN, MP##DENG, S##GROENEWALD, JZ##BOEKHOUT, T##DE BEER, ZW##BARNES, I##DUONG, TA##WINGFIELD, MJ##DE HOOG, GS##CROUS, PW##LEWIS, CT##HAMBLETON, S##MOUSSA, TAA##AL-ZAHRANI, HS##ALMAGHRABI, OA##LOUIS-SEIZE, G##ASSABGUI, R##MCCORMICK, W##OMER, G##DUKIK, K##CARDINALI, G##EBERHARDT, U##DE VRIES, M##ROBERT, V

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EUROPEAN COMMUNITYEUROPEAN COMMUNITY (EC) [FP7-228310]; FONDS ECONOMISCHE STRUCTUURVERSTERKING (FES), DUTCH MINISTRY OF EDUCATION, CULTURE AND SCIENCE [BEK/BPR-2009/137964-U]; NHMRCNATIONAL HEALTH AND MEDICAL RESEARCH COUNCIL OF AUSTRALIA [APP1031952]; A.P. SLOAN FOUNDATION PROGRAMME ON THE MICROBIOLOGY OF THE BUILT ENVIRONMENT; DEANSHIP OF SCIENTIFIC RESEARCH (DSR), KING ABDULAZIZ UNIVERSITY [1-965/1434 HICI]; FUNDACAO PARA A CIENCIA E A TECNOLOGIA (PORTUGAL)PORTUGUESE FOUNDATION FOR SCIENCE AND TECHNOLOGY [PTDC/BIA-BIC/4585/2012]; [CGL2012-359]

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INFLUENCE OF THE LINAC DESIGN ON IMRT

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RADIOTHERAPY AND ONCOLOGY

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2015

THE BINARY-TO-TERNARY RHYTHMIC CONTINUUM IN STRESS TYPOLOGY: LAYERED FEET AND NON-INTERVENTION CONSTRAINTS

THIS ARTICLE PRESENTS A NOVEL OT ANALYSIS OF TERNARY RHYTHM, USING THE RESTRICTIVE FORMAT OF MCCARTHY (2003)'S CATEGORICAL ALIGNMENT CONSTRAINTS, WHICH WE WILL REFER TO AS 'NON-INTERVENTION CONSTRAINTS', USING THE TERMINOLOGY OF ELLISON (1994), AND ARGUES FOR THE REHABILITATION OF INTERNALLY LAYERED FEET IN METRICAL REPRESENTATIONS (I.E. FEET WITH ONE LAYER OF RECURSION). BY MEANS OF A COMPUTER-GENERATED FACTORIAL TYPOLOGY, WE DEMONSTRATE THAT THE CONSTRAINT SET PROPOSED HERE GENERATES THE FULL TYPOLOGY OF BINARY AND TERNARY RHYTHM. THE RESULTING TYPOLOGY SUGGESTS THAT THERE IS NO ABSOLUTE BOUNDARY BETWEEN BINARY AND TERNARY SYSTEMS; RATHER, A CONTINUUM EMERGES, SUCH THAT BINARY AND TERNARY FEET MAY COEXIST IN RHYTHMIC STRESS SYSTEMS.

ENGLISH; PHONOTACTICS; LOCALITY; WORD

NA

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LINGUISTICS; LANGUAGE & LINGUISTICS

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CENTRE FOR ADVANCED STUDY IN THEORETICAL LINGUISTICS (CASTL) IN TROMSO; NETHERLANDS ORGANISATION FOR SCIENTIFIC RESEARCH (NWO)NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO) [360-89-030]

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2006

NEUTRAL KAON INTERFEROMETRY IN AU PLUS AU COLLISIONS AT ROOT(S)(NN) =200GEV

WE PRESENT THE FIRST STATISTICALLY MEANINGFUL RESULTS FROM TWO-K-S(0) INTERFEROMETRY IN HEAVY-ION COLLISIONS AT ROOT S(NN)=200 GEV. A MODEL THAT TAKES THE EFFECT OF THE STRONG INTERACTION INTO ACCOUNT HAS BEEN USED TO FIT THE MEASURED CORRELATION FUNCTION. THE EFFECTS OF SINGLE AND COUPLED CHANNELS WERE EXPLORED. AT THE MEAN TRANSVERSE MASS < M(T)>=1.07 GEV, WE OBTAIN THE VALUES R=4.09 +/- 0.46(STAT)+/- 0.31(SYS) FM AND LAMBDA=0.92 +/- 0.23(STAT)+/- 0.13(SYS), WHERE R AND LAMBDA ARE THE INVARIANT RADIUS AND CHAOTICITY PARAMETERS, RESPECTIVELY. THE RESULTS ARE QUALITATIVELY CONSISTENT WITH M(T) SYSTEMATICS ESTABLISHED WITH PIONS IN A SCENARIO CHARACTERIZED BY A STRONG COLLECTIVE FLOW.

BOSE-EINSTEIN CORRELATIONS; STRANGE QUARK MATTER; PION INTERFEROMETRY; LATTICE QCD; STAR TPC; PAIRS; MULTIPLICITY; TEMPERATURE; FEMTOSCOPY; PARTICLES

NA

PHYSICAL REVIEW C

ABELEV, BI##AGGARWAL, MM##AHAMMED, Z##AMONETT, J##ANDERSON, BD##ANDERSON, M##ARKHIPKIN, D##AVERICHEV, GS##BAI, Y##BALEWSKI, J##BARANNIKOVA, O##BARNBY, LS##BAUDOT, J##BEKELE, S##BELAGA, VV##BELLINGERI-LAURIKAINEN, A##BELLWIED, R##BENEDOSSO, F##BHARDWAJ, S##BHASIN, A##BHATI, AK##BICHSEL, H##BIELCIK, J##BIELCIKOVA, J##BLAND, LC##BLYTH, SL##BONNER, BE##BOTJE, M##BOUCHET, J##BRANDIN, AV##BRAVAR, A##BURTON, TP##BYSTERSKY, M##CADMAN, RV##CAI, XZ##CAINES, H##SANCHEZ, MCD##CASTILLO, J##CATU, O##CEBRA, D##CHAJECKI, Z##CHALOUPKA, P##CHATTOPADHYAY, S##CHEN, HF##CHEN, JH##CHENG, J##CHERNEY, M##CHIKANIAN, A##CHRISTIE, W##COFFIN, JP##CORMIER, TM##COSENTINO, MR##CRAMER, JG##CRAWFORD, HJ##DAS, D##DAS, S##DASH, S##DAUGHERITY, M##DE MOURA, MM##DEDOVICH, TG##DEPHILLIPS, M##DEREVSCHIKOV, AA##DIDENKO, L##DIETEL, T##DJAWOTHO, P##DOGRA, SM##DONG, WJ##DONG, X##DRAPER, JE##DU, F##DUNIN, VB##DUNLOP, JC##MAZUMDAR, MRD##ECKARDT, V##EDWARDS, WR##EFIMOV, LG##EMELIANOV, V##ENGELAGE, J##EPPLEY, G##ERAZMUS, B##ESTIENNE, M##FACHINI, P##FATEMI, R##FEDORISIN, J##FILIMONOV, K##FILIP, P##FINCH, E##FINE, V##FISYAK, Y##FU, J##GAGLIARDI, CA##GAILLARD, L##GANTI, MS##GHAZIKHANIAN, V##GHOSH, P##GONZALEZ, JE##GORBUNOV, YG##GOS, H##GREBENYUK, O##GROSNICK, D##GUERTIN, SM##GUIMARAES, KSFF##GUPTA, N##GUTIERREZ, TD##HAAG, B##HALLMAN, TJ##HAMED, A##HARRIS, JW##HE, W##HEINZ, M##HENRY, TW##HEPPLEMANN, S##HIPPOLYTE, B##HIRSCH, A##HJORT, E##HOFFMAN, AM##HOFFMANN, GW##HORNER, MJ##HUANG, HZ##HUANG, SL##HUGHES, EW##HUMANIC, TJ##IGO, G##JACOBS, P##JACOBS, WW##JAKL, P##JIA, F##JIANG, H##JONES, PG##JUDD, EG##KABANA, S##KANG, K##KAPITAN, J##KAPLAN, M##KEANE, D##KECHECHYAN, A##KHODYREV, VY##KIM, BC##KIRYLUK, J##KISIEL, A##KISLOV, EM##KLEIN, SR##KOCOLOSKI, A##KOETKE, DD##KOLLEGGER, T##KOPYTINE, M##KOTCHENDA, L##KOUCHPIL, V##KOWALIK, KL##KRAMER, M##KRAVTSOV, P##KRAVTSOV, VI##KRUEGER, K##KUHN, C##KULIKOV, AI##KUMAR, A##KUZNETSOV, AA##LAMONT, MAC##LANDGRAF, JM##LANGE, S##LAPOINTE, S##LAUE, F##LAURET, J##LEBEDEV, A##LEDNICKY, R##LEE, CH##LEHOCKA, S##LEVINE, MJ##LI, C##LI, Q##LI, Y##LIN, G##LIN, X##LINDENBAUM, SJ##LISA, MA##LIU, F##LIU, H##LIU, J##LIU, L##LIU, Z##LJUBICIC, T##LLOPE, WJ##LONG, H##LONGACRE, RS##LOVE, WA##LU, Y##LUDLAM, T##LYNN, D##MA, GL##MA, JG##MA, YG##MAGESTRO, D##MAHAPATRA, DP##MAJKA, R##MANGOTRA, LK##MANWEILER, R##MARGETIS, S##MARKERT, C##MARTIN, L##MATIS, HS##MATULENKO, YA##MCCLAIN, CJ##MCSHANE, TS##MELNICK, Y##MESCHANIN, A##MILLANE, J##MILLER, ML##MINAEV, NG##MIODUSZEWSKI, S##MIRONOV, C##MISCHKE, A##MISHRA, DK##MITCHELL, J##MOHANTY, B##MOLNAR, L##MOORE, CF##MOROZOV, DA##MUNHOZ, MG##NANDI, BK##NATTRASS, C##NAYAK, TK##NELSON, JM##NETRAKANTI, PK##NOGACH, LV##NURUSHEV, SB##ODYNIEC, G##OGAWA, A##OKOROKOV, V##OLDENBURG, M##OLSON, D##PACHR, M##PAL, SK##PANEBRATSEV, Y##PANITKIN, SY##PAVLINOV, AI##PAWLAK, T##PEITZMANN, T##PEREVOZTCHIKOV, V##PERKINS, C##PERYT, W##PHATAK, SC##PICHA, R##PLANINIC, M##PLUTA, J##POLJAK, N##PORILE, N##PORTER, J##POSKANZER, AM##POTEKHIN, M##POTREBENIKOVA, E##POTUKUCHI, BVKS##PRINDLE, D##PRUNEAU, C##PUTSCHKE, J##RAKNESS, G##RANIWALA, R##RANIWALA, S##RAY, RL##RAZIN, SV##REINNARTH, J##RELYEA, D##RETIERE, F##RIDIGER, A##RITTER, HG##ROBERTS, JB##ROGACHEVSKIY, OV##ROMERO, JL##ROSE, A##ROY, C##RUAN, L##RUSSCHER, MJ##SAHOO, R##SAKUMA, T##SALUR, S##SANDWEISS, J##SARSOUR, M##SAZHIN, PS##SCHAMBACH, J##SCHARENBERG, RP##SCHMITZ, N##SCHWEDA, K##SEGER, J##SELYUZHENKOV, I##SEYBOTH, P##SHABETAI, A##SHAHALIEV, E##SHAO, M##SHARMA, M##SHEN, WQ##SHIMANSKIY, SS##SICHTERMANN, EP##SIMON, F##SINGARAJU, RN##SMIRNOV, N##SNELLINGS, R##SOOD, G##SORENSEN, P##SOWINSKI, J##SPELTZ, J##SPINKA, HM##SRIVASTAVA, B##STADNIK, A##STANISLAUS, TDS##STOCK, R##STOLPOVSKY, A##STRIKHANOV, M##STRINGFELLOW, B##SUAIDE, AAP##SUGARBAKER, E##SUMBERA, M##SUN, Z##SURROW, B##SWANGER, M##SYMONS, TJM##DE TOLEDO, AS##TAI, A##TAKAHASHI, J##TANG, AH##TARNOWSKY, T##THEIN, D##THOMAS, JH##TIMMINS, AR##TIMOSHENKO, S##TOKAREV, M##TRAINOR, TA##TRENTALANGE, S##TRIBBLE, RE##TSAI, OD##ULERY, J##ULLRICH, T##UNDERWOOD, DG##VAN BUREN, G##VAN DER KOLK, N##VAN LEEUWEN, M##MOLEN, AMV##VARMA, R##VASILEVSKI, IM##VASILIEV, AN##VERNET, R##VIGDOR, SE##VIYOGI, YP##VOKAL, S##VOLOSHIN, SA##WAGGONER, WT##WANG, F##WANG, G##WANG, JS##WANG, XL##WANG, Y##WATSON, JW##WEBB, JC##WESTFALL, GD##WETZLER, A##WHITTEN, C##WIEMAN, H##WISSINK, SW##WITT, R##WOOD, J##WU, J##XU, N##XU, QH##XU, Z##YEPES, P##YOO, IK##YUREVICH, VI##ZHAN, W##ZHANG, H##ZHANG, WM##ZHANG, Y##ZHANG, ZP##ZHAO, Y##ZOULKARNEEV, R##ZOULKARNEEVA, Y##ZUBAREV, AN##ZUO, JX

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PHYSICS, NUCLEAR

PHYSICS

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2014

ASSESSING DEVELOPMENTAL SPACE IN TEAMS

PURPOSE - THE AIM OF THIS PAPER IS TO DEVELOP AN INSTRUMENT TO ASSESS THE DEVELOPMENTAL SPACE THAT TEAMS CREATE; EXAMINE WHETHER CREATING MORE DEVELOPMENTAL SPACE LEADS TO GREATER SATISFACTION WITH TEAM RESULTS; AND DECIDE WHICH OF THREE MODELS BEST PREDICTS PERCEIVED RESULTS. DESIGN/METHODOLOGY/APPROACH - THE PAPER PRESENTS A QUANTITATIVE STUDY OF INDIVIDUALS (N = 257). AN INSTRUMENT WAS DESIGNED TO ASSESS DEVELOPMENTAL SPACE AND WAS VALIDATED WITH A FACTOR ANALYSIS. MULTIPLE REGRESSION ANALYSES WERE USED TO EXAMINE WHETHER CREATING DEVELOPMENTAL SPACE LED TO GREATER SATISFACTION WITH TEAM RESULTS. FINDINGS - THIS STUDY CONFIRMS THE FOUR- FACTOR STRUCTURE OF DEVELOPMENTAL SPACE SUGGESTED BY EARLIER RESEARCH. CREATING MORE DEVELOPMENTAL SPACE IS POSITIVELY RELATED TO PERCEIVED TEAM RESULTS. PRACTICAL IMPLICATIONS - THIS RESEARCH HIGHLIGHTS THE IMPORTANCE OF CREATING DEVELOPMENTAL SPACE AND PROVIDES TEAMS WITH AN INSTRUMENT TO ASSESS THEIR DEVELOPMENTAL SPACE AS A STARTING POINT FOR IMPROVEMENT. ORIGINALITY/VALUE - THE INTERACTIONS TEAMS USE ARE CRUCIAL IN EXPLAINING THE EFFECTS OF TEAMWORK, BUT SEEM UNDEREXPOSED IN TEAM RESEARCH. CREATING DEVELOPMENTAL SPACE IS A RELATIVELY NEW CONCEPT, HITHERTO ONLY RESEARCHED QUALITATIVELY. THIS EMPIRICAL STUDY EXTENDS AND ENDORSES PREVIOUS RESEARCH ON DEVELOPMENTAL SPACE BY PROVIDING A QUANTITATIVE ASSESSMENT.

IDEA GENERATION; PARADOX; MODEL; PERFORMANCE; INNOVATION; CREATIVITY; DIVERSITY

TEAM PERFORMANCE; INNOVATION; COMPLEX TASKS; DEVELOPMENTAL SPACE; TEAM INTERACTIONS; TEAM RESULTS; TEAM SENSEMAKING

TEAM PERFORMANCE MANAGEMENT

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2006

THE EFFECT OF ADMISSION TO A GERIATRIC WARD ON MEDICATION USE: 2002 VERSUS 1985

PURPOSE TO INVESTIGATE THE CHANGES IN PHARMACOTHERAPY OF PATIENTS DURING AND AFTER ADMISSION TO A GERIATRIC WARD IN 2002 AND TO INVESTIGATE IF THIS GOES ALONG WITH REDUCTION OF DRUGS. TO DESCRIBE THE DIFFERENCES OF THE ADMITTED PATIENTS AND THEIR MEDICATION IN 2002 COMPARED TO 1985. METHODS INCLUDED PATIENTS WERE ADMITTED TO THE GERIATRIC WARD OF A GENERAL HOSPITAL IN THE NETHERLANDS DURING 2002 (N = 258, MEAN AGE 84.2 YEARS). MEDICATION AT ADMISSION, DURING ADMISSION AND AT DISCHARGE WERE DESCRIBED AFTER RETROSPECTIVE REVIEWING OF MEDICAL CHARTS. A COMPARABLE STUDY WAS PERFORMED AT THE SAME WARD IN 1985. RESULTS IN 2002, MOST FREQUENTLY USED MEDICATION AT ADMISSION WAS ACETYLSALICYLIC ACID (30.2%). PANTOPRAZOLE WAS DURING ADMISSION USED IN 38.8% OF PATIENTS AND AT DISCHARGE IN 31.8%. FOLIC ACID THAT WAS AT ADMISSION USED BY 11.6% OF PATIENTS WAS AT DISCHARGE INCREASED TO 23.4%. AT DISCHARGE, VITAMIN D WAS USED IN 21.5% OF PATIENTS, WHEREAS LISINOPRIL WAS USED IN 17.8% OF PATIENTS. BOTH IN 1985 AND 2002 VITAMINS WERE ADDED AND USE OF ANTIBIOTICS WAS INCREASED DURING ADMISSION. A MEAN ADDITION OF 1.0 DRUG IN 1985 AND OF 0.7 DRUGS IN 2002 WAS OBSERVED. CONCLUSIONS GERIATRIC HOSPITAL ADMISSION RESULTED BOTH IN 1985 AND 2002 IN ADDITION OF MEDICATION. IN BOTH PERIODS REDUCTIONS IN MEDICATION WERE NULLIFIED BY ADDITION OF MEDICATION FOR REASON OF THERAPY OPTIMISATION. COMPARED TO 1985 ADMITTED PATIENTS RECEIVE MORE MEDICATION RESULTING FROM NEW INSIGHTS INTO PHARMACOTHERAPY AND MORE USE OF PREVENTIVE MEDICINE. COPYRIGHT (C) 2006 JOHN WILEY & SONS, LTD.

POLYPHARMACY; DEFICIENCY; FOLATE

DRUG THERAPY; OLDER PEOPLE; GERIATRIC WARD; HISTORICAL COHORT STUDY

PHARMACOEPIDEMIOLOGY AND DRUG SAFETY

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PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH; PHARMACOLOGY & PHARMACY

PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH; PHARMACOLOGY & PHARMACY

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PATRON-DRIVEN ACQUISITION: WHAT DO WE KNOW ABOUT OUR PATRONS?

THIS PAPER DESCRIBES HOW UTRECHT UNIVERSITY LIBRARY IS TRYING TO REACH A SUSTAINABLE AND EFFICIENT PDA MODEL, OFFERING MORE E-BOOKS TO OUR USERS. PDA E-BOOKS WERE MADE AVAILABLE IN THE CATALOG. WE DEVELOPED AN EFFICIENT BACK OFFICE PROCESS FOR UPDATES, DELETIONS AND FINANCIAL ADMINISTRATION. WE DID PILOT PROGRAMS TO TEST PDA AS AN ACQUISITION MODEL. DURING THE PILOT ANONYMIZED USER DATA WAS COLLECTED OF PATRONS AND THEIR USE OF PDA E-BOOKS. DUE TO HEAVY USAGE AND TOO FAST DEPLETION OF BUDGET WE HAD TO ADJUST OUR PDA MODEL. THE COLLECTED DATA HELPED TO UNDERSTAND THE DEVELOPMENT OF COSTS AND TO DECIDE ABOUT THE CHANGES IN THE PDA MODEL. AFTER A YEAR PDA PILOT, WE DEVELOPED A PREDICTABLE PDA MODEL. HOWEVER, FOR A SUSTAINABLE MODEL THERE ARE STILL CHALLENGES, NOT ONLY DUE TO DILEMMAS ON RESTRICTING THE PDA PROFILE, BUT ALSO DUE TO PUBLISHERS RAISING STL PRICES.

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CHARLESTON CONFERENCE PROCEEDINGS 2014: THE IMPORTANCE OF BEING EARNEST

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INFORMATION SCIENCE & LIBRARY SCIENCE

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2015

GROUPS AS MORAL ANCHORS

MORALITY INDICATES WHAT IS THE 'RIGHT' AND THE 'WRONG' WAY TO BEHAVE. HOWEVER, WHAT PEOPLE SEE AS MORAL CAN SHIFT, DEPENDING ON DEFINING NORMS AND DISTINCTIVE FEATURES OF THE GROUPS TO WHICH THEY BELONG. ACTING IN WAYS THAT ARE CONSIDERED 'MORAL' BY THE GROUP SECURES INCLUSION AND ELICITS RESPECT FROM OTHERS WHO ARE IMPORTANT TO THE SELF. MORALITY IS A CENTRAL FEATURE OF GROUP MEMBERSHIP. THIS HELPS EXPLAIN HOW MORAL CONSIDERATIONS REGULATE THE BEHAVIOR OF INDIVIDUALS IN GROUPS, AND WHEN THIS IS LIKELY TO ELICIT CONFLICTS WITH MEMBERS OF OTHER GROUPS. WE SHOW HOW PEOPLE'S INTERNAL MORAL COMPASS IS ANCHORED BY SOCIALLY SHARED CONCEPTIONS OF MORALITY, WHICH DETERMINE BEHAVIORAL CHOICES OF INDIVIDUALS LIVING AND WORKING TOGETHER IN COMMUNITIES AND ORGANIZATIONS.

MOTIVES; VALUES; ATTENTION; CONFLICT; IDENTITY; CONTEXT; HEART

NA

CURRENT OPINION IN PSYCHOLOGY

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PSYCHOLOGY, MULTIDISCIPLINARY

PSYCHOLOGY

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2020-11-29

NA

UNIV UTRECHT#LEIDEN UNIV

NETHERLANDS#NETHERLANDS

772

J

WOS:000368649400011

2015

HAVING IT BOTH WAYS: HYBRID THEORIES AND MODERN METAETHICS

NA

NA

NA

ETHICAL PERSPECTIVES

KALF, WF

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ETHICS; PHILOSOPHY

SOCIAL SCIENCES - OTHER TOPICS; PHILOSOPHY

FLETCHER G, 2014, HAVING IT BOTH WAYS

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2020-11-29

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UNIV UTRECHT

NETHERLANDS

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WOS:000239903200013

2006

HIERARCHY OF COMPOSITE FERMIONS IN THE HAMILTONIAN THEORY

MOST STATES OF THE FRACTIONAL QUANTUM HALL EFFECT MAY BE INTERPRETED IN TERMS OF AN INTEGRAL QUANTUM HALL EFFECT OF WEAKLY-INTERACTING QUASIPARTICLES (COMPOSITE FERMIONS). THE RECENTLY DISCOVERED 4/11 STATE DOES NOT BELONG TO THESE STATES BECAUSE ITS FORMATION IS DUE TO THE RESIDUAL INTERACTIONS BETWEEN COMPOSITE FERMIONS, WHICH BECOME RELEVANT WHEN THE COMPOSITE-FERMION LEVELS ARE ONLY PARTIALLY FILLED. WE HAVE DERIVED A MODEL OF INTERACTING COMPOSITE FERMIONS, WHICH REVEALS THE SELF-SIMILARITY OF THE FRACTIONAL QUANTUM HALL EFFECT AND WHICH ALLOWS FOR A SYSTEMATIC STUDY OF HIGHER GENERATIONS OF COMPOSITE FERMIONS. HERE, WE DERIVE THE FORM OF THE INTERACTION POTENTIAL BETWEEN THESE HIERARCHICAL COMPOSITE FERMIONS AND PROVIDE SOME STABILITY CRITERIA FOR SUCH STATES. (C) 2006 ELSEVIER B.V. ALL RIGHTS RESERVED.

INCOMPRESSIBLE QUANTUM FLUID; HALL; ELECTRONS; STATE

QUANTUM HALL EFFECTS; COMPOSITE FERMIONS; STRONGLY CORRELATED ELECTRONS; SELF-SIMILARITY

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES

GOERBIG, MO##LEDERER, P##SMITH, CM

UNIV UTRECHT, INST THEORET PHYS, NL-3584 CE UTRECHT, NETHERLANDS. UNIV PARIS 11, CNRS, UMR 8502, PHYS SOLIDES LAB, F-91405 ORSAY, FRANCE. UNIV PARIS 06, CNRS, UMR 7589, PHYS THEOR & HAUTES ENERGIES LAB, F-75252 PARIS 05, FRANCE. UNIV PARIS 07, CNRS, UMR 7589, PHYS THEOR & HAUTES ENERGIES LAB, F-75252 PARIS 05, FRANCE.

NANOSCIENCE & NANOTECHNOLOGY; PHYSICS, CONDENSED MATTER

SCIENCE & TECHNOLOGY - OTHER TOPICS; PHYSICS

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UNIV UTRECHT#UNIV PARIS#UNIV PARIS#UNIV PARIS

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WOS:000366534600038

2015

ABSENCE OF ATYPICAL E2F LEADS TO VENTRICULOMEGALY

NA

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NA

INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE

DUGAL-TESSIER, D##VANDENBOSCH, R##KHACHO, M##WEIJTS, B##PARK, DS##LEONE, G##DE BRUIN, A##SLACK, RS

[DUGAL-TESSIER, D.; VANDENBOSCH, R.; KHACHO, M.; PARK, D. S.; SLACK, R. S.] UNIV OTTAWA, OTTAWA HLTH RES INST NEUROSCI, OTTAWA, ON, CANADA. [DUGAL-TESSIER, D.; VANDENBOSCH, R.; KHACHO, M.; PARK, D. S.; SLACK, R. S.] UNIV OTTAWA, DEPT CELLULAR & MOL MED, OTTAWA, ON, CANADA. [LEONE, G.] OHIO STATE UNIV, CTR COMPREHENS CANC, HUMAN CANC GENET PROGRAM, DEPT MOL VIROL IMMUNOL & MED GENET, COLUMBUS, OH 43210 USA. [WEIJTS, B.; DE BRUIN, A.] UNIV UTRECHT, FAC VET MED, DEPT PATHOBIOL, UTRECHT, NETHERLANDS.

DEVELOPMENTAL BIOLOGY; NEUROSCIENCES

DEVELOPMENTAL BIOLOGY; NEUROSCIENCES & NEUROLOGY

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CANADA#CANADA#OH USA#NETHERLANDS

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2014

THE REAL PROFESSIONAL IS A LEARNING PROFESSIONAL

'PROFESSIONS' WERE CALLED ""LEARNED PROFESSIONS IN ANCIENT TIMES."" SINCE THEN PROFESSIONS AND PROFESSIONALS HAVE PLAYED A CONTINUING, BUT CONSTANTLY CHANGING ROLE, IN OUR ORGANIZATIONS AND SOCIETY. DESPITE THE AMOUNT OF VAGUENESS AND AMBIGUITIES, THE CONCEPT OF `PROFESSIONAL' REMAINS POPULAR. IT HAS BEEN USED AS A STANDARD, A DEMAND, A DEFENSE AND AS AN ATTACK. IT IS ALSO A CONCEPT WITH MANY DEFINITIONS AND MANY CONNOTATIONS AND DENOTATIONS FORMED BY HISTORY AND SOCIAL CONTEXTS. MANY AUTHORS HAVE EVEN SUGGESTED ABANDONING THE NOTION OF PROFESSIONAL AS A CONCEPTUAL TOOL. WE THINK THAT IT IS TIME TO GIVE THIS CONCEPT NEW CLARITY, USE, AND INTERPRETATION, FITTING BETTER WITHIN OUR TIME AND, MOST OF ALL, PROVIDING VALUE TO OUR WORK SYSTEMS. IN THIS CHAPTER, WE HARVESTED WHAT HISTORY HAS TAUGHT US IN ORDER TO FIND A DIFFERENT MINDSET, TO FURTHER DEFINE AND CONTEMPLATE THE PROFESSIONAL. OUR MAIN TENET IS THAT PROFESSIONALISM IS A SELF-CHOSEN CHARACTERISTIC THAT IS CLOSELY RELATED TO LEARNING. FROM THE LITERATURE, WE DERIVED EIGHT CHARACTERISTICS OF PROFESSIONALS AND CONNECTED THESE TO LEARNING. THE QUESTION OF WHO IS AND IS NOT A PROFESSIONAL HAS FUNDAMENTALLY CHANGED, GOING FROM LEARNED PROFESSIONS TO LEARNING PROFESSIONALS. FINALLY, WE PRESENT A MODEL OF DIFFERENT WAYS OF LEARNING THAT LEARNING PROFESSIONALS NEED, BOTH INDIVIDUALLY AND COLLECTIVELY. THE CHAPTER ENDS WITH IMPLICATIONS FOR THEORY, RESEARCH AND PRACTICE.

NA

PROFESSIONAL; LEARNING AND DEVELOPMENT; LEARNING LANDSCAPE; COMMITMENT; INTEGRITY; BODY OF KNOWLEDGE; THEORY OF PRACTICE; ISLAND OF EXPERTISE; PROFESSIONAL FRAME; AUTONOMY; AUTHORITY

INTERNATIONAL HANDBOOK OF RESEARCH IN PROFESSIONAL AND PRACTICE-BASED LEARNING, VOLS 1-2

SIMONS, PRJ##RUIJTERS, MCP

[SIMONS, P. ROBERT-JAN] UNIV UTRECHT, CTR EDUC & LEARNING, HEIDELBERGLAAN 1, NL-3584 CS UTRECHT, NETHERLANDS. [SIMONS, P. ROBERT-JAN] NETHERLANDS SCH EDUC MANAGEMENT ACAD LEADERSHIP E, NSO, AMSTERDAM, NETHERLANDS. [RUIJTERS, MANON C. P.] UNIV APPL SCI, STOAS VILENTUM, WAGENINGEN, NETHERLANDS. [RUIJTERS, MANON C. P.] TWYNSTRA GUDDE, MANAGEMENT & CONSULTANTS, AMERSFOORT, NETHERLANDS.

EDUCATION & EDUCATIONAL RESEARCH

EDUCATION & EDUCATIONAL RESEARCH

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2020-11-27

NA

UNIV UTRECHT#NETHERLANDS SCH EDUC MANAGEMENT ACAD LEADERSHIP E#UNIV APPL SCI#TWYNSTRA GUDDE

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WOS:000365575400002

2015

SUPERCRITICAL-FLOW STRUCTURES ON A LATE CARBONIFEROUS DELTA FRONT: SEDIMENTOLOGIC AND PALEOCLIMATIC SIGNIFICANCE REPLY

NA

NA

NA

GEOLOGY

VENTRA, D##CARTIGNY, MJB##BIJKERK, JF##ACIKALIN, S

[VENTRA, DARIO] UNIV UTRECHT, FAC GEOSCI, NL-3584 CS UTRECHT, NETHERLANDS. [CARTIGNY, MATTHIEU J. B.] NATL OCEANOG CTR, SOUTHAMPTON SO14 3ZH, HANTS, ENGLAND. [BIJKERK, JOCHEM F.] BRITISH GEOL SURVEY, KEYWORTH NG12 5GG, NOTTS, ENGLAND. [ACIKALIN, SANEM] BADLEY ASHTON & ASSOCIATES LTD, HORNCASTLE LN9 6PB, ENGLAND.

GEOLOGY

GEOLOGY

BEST J.L., 2008, RIVER CONFLUENCES TR, P45, DOI [DOI 10.1002/9780470760383.CH4, 10.1002/9780470760383.CH4]##BRETTLE MJ, 2002, J GEOL SOC LONDON, V159, P379, DOI 10.1144/0016-764901-070##BRISTOW CS, 1993, INT ASS SEDIMENTOLOG, V17, P91##GILBERT R, 2009, SEDIMENTOLOGY, V56, P645, DOI 10.1111/J.1365-3091.2008.00990.X##HAMPSON GJ, 1997, P YORKS GEOL SOC, V51, P273, DOI 10.1144/PYGS.51.4.273##KANE I, 2015, GEOLOGY, V43, PE374, DOI 10.1130/G37231C.1##VENTRA D, 2015, GEOLOGY, V43, P731, DOI 10.1130/G36708.1

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2020-11-29

NATURAL ENVIRONMENT RESEARCH COUNCILNERC NATURAL ENVIRONMENT RESEARCH COUNCIL [NOC010011] FUNDING SOURCE: RESEARCHFISH

UNIV UTRECHT#NATL OCEANOG CTR#BRITISH GEOL SURVEY#BADLEY ASHTON ASSOCIATES LTD

NETHERLANDS#ENGLAND#ENGLAND#ENGLAND

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WOS:000348849200008

2014

SIGNIFICANCE OF TELECOUPLING FOR EXPLORATION OF LAND-USE CHANGE

LAND SYSTEMS ARE INCREASINGLY INFLUENCED BY DISTAL CONNECTIONS: THE EXTERNALITIES AND UNINTENDED CONSEQUENCES OF SOCIAL AND ECOLOGICAL PROCESSES WHICH OCCUR IN DISTANT LOCATIONS, AND THE FEEDBACK MECHANISMS THAT LEAD TO NEW INSTITUTIONAL DEVELOPMENTS AND GOVERNANCE ARRANGEMENTS. ECONOMIC GLOBALIZATION AND URBANIZATION ACCENTUATE THESE NOVEL TELECOUPLING RELATIONSHIPS. THE PREVALENCE OF TELECOUPLING IN LAND SYSTEMS DEMANDS NEW APPROACHES TO RESEARCH AND ANALYSIS IN LAND SCIENCE. THIS CHAPTER PRESENTS A WORKING DEFINITION OF A TELECOUPLED SYSTEM, EMPHASIZING THE ROLE OF GOVERNANCE AND INSTITUTIONAL CHANGE IN TELECOUPLED INTERACTIONS. THE SOCIAL, INSTITUTIONAL, AND ECOLOGICAL PROCESSES AND CONDITIONS THROUGH WHICH TELECOUPLING EMERGES ARE DESCRIBED. THE ANALYSIS OF THESE RELATIONSHIPS IN LAND SCIENCE DEMANDS BOTH INTEGRATIVE AND DIVERSE EPISTEMOLOGICAL PERSPECTIVES AND METHODS. SUCH ANALYSES REQUIRE A FOCUS ON HOW THE MOTIVATIONS AND VALUES OF SOCIAL ACTORS RELATE TO TELECOUPLING PROCESSES, AS WELL AS ON THE MECHANISMS THAT PRODUCE UNANTICIPATED OUTCOMES AND FEEDBACK RELATIONSHIPS AMONG DISTAL LAND SYSTEMS.

NA

NA

RETHINKING GLOBAL LAND USE IN AN URBAN ERA

EAKIN, H##DEFRIES, R##KERR, S##LAMBIN, EF##LIU, JG##MARCOTULLIO, PJ##MESSERLI, P##REENBERG, A##RUEDA, X##SWAFFIELD, SR##WICKE, B##ZIMMERER, K

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ENVIRONMENTAL STUDIES; GEOGRAPHY; REGIONAL & URBAN PLANNING

ENVIRONMENTAL SCIENCES & ECOLOGY; GEOGRAPHY; PUBLIC ADMINISTRATION

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2014

APPLICATION OF MYCOTOXIN ADSORBENT TO CATTLE FEED CONTAMINATED WITH ZEARALENONE: URINARY ZEARALENONE EXCRETION AND ASSOCIATION WITH ANTI-MULLERIAN HORMONE

THIS STUDY INVESTIGATED (1) PROTECTIVE EFFECTS OF A COMMERCIALLY AVAILABLE MYCOTOXIN ADSORBENT (MA) AND (2) ENDOCRINE EFFECTS OF IN VIVO EXPOSURE TO ZEARALENONE (ZEA) IN CATTLE. THE SAMPLE INCLUDED A JAPANESE BLACK FEMALE CATTLE HERD (MYT HERD) THAT DISPLAYED PERSISTENTLY HIGH URINARY ZEA CONCENTRATIONS. A SECOND HERD (NM HERD) WAS USED AS A CONTROL. THREE GROUPS FROM EACH HERD WERE ASSESSED: MX (N=6; MA MIXED WITH CONCENTRATE), TD (N=6; MA APPLIED AS TOPDRESSING WITH THE CONCENTRATE), AND A POSITIVE CONTROL (N=6; NO MA APPLICATION). URINE AND BLOOD SAMPLES WERE COLLECTED AT THE START OF MA SUPPLEMENTATION (DAY 0), ON THE FINAL DAY OF SUPPLEMENTATION (DAY 16), AND ON THE FINAL DAY OF THE SAMPLING PERIOD (DAY 58 FOR MYT HERD AND DAY 50 FOR NM HERD). URINARY ZEA CONCENTRATIONS (PG/MG OF CREATININE) WERE MEASURED BY ELISA AND LIQUID CHROMATOGRAPHY COUPLED TO TANDEM MASS SPECTROMETRY (LC-MS/MS). HAEMATOLOGICAL AND SERUM BIOCHEMICAL ANALYSES WERE PERFORMED TO MONITOR HEPATIC, RENAL, NUTRITIONAL, AND MINERAL INTAKE STATUSES. OVULATION STATUS WAS ASSESSED BY PROGESTERONE (P4) AND ANTRAL FOLLICLE POPULATION BY ANTI-MULLERIAN HORMONE (AMH) LEVELS. THE URINARY CONCENTRATIONS OF ZEA AND ITS METABOLITES IN THE MX AND TD GROUPS WERE SIGNIFICANTLY LOWER (P<0.05) AT DAY 16 COMPARED WITH THE CONTROL GROUP, AS MEASURED BY LC-MS/MS. THE VALID RATIO OF AMH-POSITIVE (>0.08 NG/ML) CATTLE WAS SIGNIFICANTLY HIGHER IN THE NM HERD THAN IN THE MYT HERD WITHOUT AFFECTING THE P4-POSITIVE (>3 NG/ML) RATIO, SUGGESTING DIFFERENT POPULATIONS OF ANTRAL FOLLICLES. SIGNIFICANT DIFFERENCES WERE ALSO OBSERVED BETWEEN THE MX AND THE CONTROL IN ASPARTATE AMINOTRANSFERASE AND GAMMA-GLUTAMYLTRANSFERASE AT DAY 58, SUGGESTING PREVENTIVE EFFECTS OF MA SUPPLEMENTATION. OUR FIELD TRIAL INDICATED THAT MA SUPPLEMENTATION OF A ZEA-CONTAMINATED DIET HAS BENEFICIAL EFFECTS IN REDUCING ZEA ABSORPTION FROM THE INTESTINE OF CATTLE, MAINTAINING ENDOCRINE HOMEOSTASIS AND REVERSING HEPATIC EFFECTS.

IN-VITRO; ANIMAL FEED; DETOXIFICATION; DEOXYNIVALENOL; METABOLISM; STRATEGIES; REDUCTION; TOXICITY; EFFICACY; MILK

BIOMARKER; ENDOCRINE DISRUPTER; RICE STRAW

WORLD MYCOTOXIN JOURNAL

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2006

INFLUENCE OF NEEDLE POSITION ON LUMBAR SEGMENTAL NERVE ROOT BLOCK SELECTIVITY

BACKGROUND AND OBJECTIVES: IN PATIENTS WITH CHRONIC LOW BACK PAIN RADIATING TO THE LEG, SEGMENTAL NERVE ROOT BLOCKS (SNRBS) ARE PERFORMED TO PREDICT SURGICAL OUTCOME AND IDENTIFY THE PUTATIVE SYMPTOMATIC SPINAL NERVE. EPIDURAL SPREAD MAY LEAD TO FALSE INTERPRETATION, AFFECTING CLINICAL DECISION MAKING. SYSTEMATIC FLUOROSCOPIC ANALYSIS OF EPIDURAL LOCAL ANESTHETIC SPREAD AND ITS RELATIONSHIP TO NEEDLE TIP LOCATION HAS NOT BEEN PUBLISHED TO DATE. STUDY AIMS INCLUDE ASSESSMENT OF EPIDURAL LOCAL ANESTHETIC SPREAD AND ITS RELATIONSHIP TO NEEDLE POSITION DURING FLUOROSCOPY-ASSISTED BLOCKS. METHODS: PATIENTS SCHEDULED FOR L4, L5, AND S1 BLOCKS WERE INCLUDED IN THIS PROSPECTIVE OBSERVATIONAL STUDY. UNDER FLUOROSCOPY AND ELECTROSTIMULATION, THEY RECEIVED 0.5 ML OF A MIXTURE CONTAINING LIDOCAINE 5 MG AND IOHEXOL 75 MG. X-RAYS WITH NEEDLE TIP AND CONTRAST WERE SCORED FOR NO EPIDURAL SPREAD (GRADE 0), LOCAL SPREAD EPIDURALLY (GRADE 1), OR TO ADJACENT NERVE ROOTS (GRADE 2). RESULTS: SIXTY-FIVE PATIENTS WERE ANALYZED FOR EPIDURAL SPREAD, 62 FOR NEEDLE POSITION. GRADE I EPIDURAL SPREAD OCCURRED IN 47% OF L4 AND 28% OF L5 BLOCKS AND GRADE 2 SPREAD IN 3 BLOCKS (5%; L5 N = 1, S1 N = 2). FOR LUMBAR BLOCKS, THE NEEDLE WAS MOST FREQUENTLY FOUND IN THE LATERAL UPPER HALF OF THE INTERVERTEBRAL FORAMEN. EPIDURAL SPREAD OCCURRED MORE FREQUENTLY WITH MEDIAL NEEDLE POSITIONS (P=.06). CONCLUSION: THE FINDINGS SUGGEST (P=.06) THAT THE RISK OF GRADE 1 AND 2 LUMBAR EPIDURAL SPREAD, WHICH RESULTS IN DECREASED SNRB SELECTIVITY, IS GREATER WITH MEDIAL NEEDLE POSITIONS IN THE INTERVERTEBRAL FORAMEN. THE VARIABILITY IN ANATOMIC POSITION OF THE DORSAL ROOT GANGLION NECESSITATES ELECTROSTIMULATION TO GUIDE SNRB IN ADDITION TO FLUOROSCOPY.

LOW-BACK-PAIN; RADICULAR PAIN; DOUBLE-BLIND; LOCAL-ANESTHETICS; SCIATICA; INFILTRATION; DIAGNOSIS; RADICULOGRAPHY; INJECTION; GANGLIA

SEGMENTAL NERVE ROOT BLOCK; CHRONIC LOW BACK PAIN; SELECTIVITY

REGIONAL ANESTHESIA AND PAIN MEDICINE

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2006

CARTILAGE-DERIVED BIOMARKERS AND LIPID MEDIATORS OF INFLAMMATION IN HORSES WITH OSTEOCHONDRITIS DISSECANS OF THE DISTAL INTERMEDIATE RIDGE OF THE TIBIA

OBJECTIVE-TO ASSESS WHETHER REPORTED ALTERATIONS IN METABOLISM OF CARTILAGE MATRIX IN YOUNG (0 TO 24 MONTHS OLD) HORSES WITH OSTEOCHONDRITIS DISSECANS (OCD) MAY ALSO BE FOUND IN OLDER (24 TO 48 MONTHS OLD) HORSES WITH CLINICAL SIGNS OF OCD AND TO INVESTIGATE THE ROLE OF EICOSANOIDS IN INITIATING THESE CLINICAL SIGNS. SAMPLE POPULATION-SYNOVIAL FLUID WAS COLLECTED FROM 38 TARSOCRURAL JOINTS OF 24 WARMBLOOD HORSES WITH (22 JOINTS OF 16 HORSES) OR WITHOUT (16 JOINTS OF 8 HORSES) CLINICAL SIGNS AND A RADIOGRAPHIC DIAGNOSIS OF OCD OF THE DISTAL INTERMEDIATE RIDGE OF THE TIBIA. PROCEDURES-TURNOVER OF TYPE 11 COLLAGEN WAS INVESTIGATED BY USE OF SPECIFIC IMMUNOASSAYS FOR SYNTHESIS (CARBOXYPROPEPTIDE OF TYPE II COLLAGEN [CPII]) AND DEGRADATION (COLLAGENASE-CLEAVED FRAGMENTS OF TYPE II COLLAGEN [C2C]) PRODUCTS. FURTHERMORE, GLYCOSAMINOGLYCAN (GAG), LEUKOTRIENE (LT) B-4, CYSTEINYL LTS, AND PROSTAGLANDIN (PG) E, CONCENTRATIONS WERE DETERMINED, AND CONCENTRATIONS IN JOINTS WITH OCD WERE COMPARED WITH THOSE IN JOINTS WITHOUT OCD. RESULTS-CONCENTRATIONS OF CPII, C2C, AND GAG DID NOT DIFFER SIGNIFICANTLY BETWEEN AFFECTED AND NONAFFECTED JOINTS. FLUID FROM JOINTS WITH OCD HAD SIGNIFICANTLY HIGHER LTB4 AND PGE(2) CONCENTRATIONS THAN DID FLUIDS FROM NONAFFECTED JOINTS. CONCLUSIONS AND CLINICAL RELEVANCE-ALTERED COLLAGEN OR PROTEOGLYCAN TURNOVER WAS NOT DETECTED IN 24- TO 48-MONTH-OLD HORSES AT THE TIME THEY DEVELOPED CLINICAL SIGNS OF OCD OF THE DISTAL INTERMEDIATE RIDGE OF THE TIBIA. HOWEVER, INCREASED CONCENTRATIONS OF LTB4 AND PGE(2) IN FLUID OF JOINTS WITH OCD IMPLICATE THESE MEDIATORS IN THE INITIATION OF CLINICAL SIGNS OF OCD.

EQUINE SYNOVIAL-FLUID; II COLLAGEN; LEUKOTRIENE B-4; ANTIINFLAMMATORY DRUGS; SERUM CONCENTRATIONS; ARTICULAR-CARTILAGE; PROSTAGLANDIN E-2; JOINT DISEASE; OSTEOARTHRITIS; CHONDROCYTES

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AMERICAN JOURNAL OF VETERINARY RESEARCH

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2014

NEGOTIATING POLITICAL IDENTITIES. MULTIETHNIC SCHOOLS AND YOUTH IN EUROPE

NA

NA

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PEDAGOGY CULTURE AND SOCIETY

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THE DUTCH-SPANISH WAR IN THE LOW COUNTRIES 1621-1648

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ASHGATE RESEARCH COMPANION TO THE THIRTY YEARS' WAR

VAN NIMWEGEN, O

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HISTORY

HISTORY

BRUIJN JAAP R., 1998, VAREND VERLEDEN NEDE##ISRAEL J, 1990, EMPIRES ENTREPOTS DU##ISRAEL JONATHAN I., 1982, DUTCH REPUBLIC HISPA##LYNCH JOHN, 1981, SPAIN HABSBURGS##PARKER G., 1990, ARMY FLANDERS SPANIS##PARKER G., 1997, THE 30 YEARS WAR##PARKER GEOFFREY, 1996, MILITARY REVOLUTION##PARROTT DAVID, 2001, RICHELIEUS ARMY WAR##POELHEKKE J. J., 1978, FH PRINS ORANJE BIOG##TEN RAA F. J. G., 1911, STAATSCHE LEGER 1568, V4##VAN NIMWEGEN O., 2010, DUTCH ARMY MILITARY##VERMEIR R., 2001, STAAT OORLOG FILIPS##VISSER J., 1995, GLORIA PARENDI DAGBO

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2020-11-27

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UNIV UTRECHT

NETHERLANDS

271

J

WOS:000209718501094

2014

THE RELATION BETWEEN ISCHEMIC STROKE LOCATION AND DISTURBANCES IN DISCRIMINABILITY AND CRITERION SETTING IN RECOGNITION MEMORY: A VOXEL-BASED AND REGION OF INTEREST-BASED LESION-SYMPTOM MAPPING STUDY

NA

NA

NA

CEREBROVASCULAR DISEASES

BIESBROEK, JM##VAN ZANDVOORT, MJE##KAPPELLE, LJ##SCHOO, L##VELTHUIS, BK##BIESSELS, GJ##POSTMA, A

[BIESBROEK, J. M.; KAPPELLE, L. J.; BIESSELS, G. J.] UNIV MED CTR UTRECHT, BRAIN CTR RUDOLF MAGNUS, UTRECHT STROKE CTR, DEPT NEUROL, UTRECHT, NETHERLANDS. [VAN ZANDVOORT, M. J. E.; SCHOO, L.; POSTMA, A.] UNIV UTRECHT, HELMHOLTZ INST, EXPT PSYCHOL, UTRECHT, NETHERLANDS. [VELTHUIS, B. K.] UNIV MED CTR UTRECHT, DEPT RADIOL, UTRECHT, NETHERLANDS.

CLINICAL NEUROLOGY; PERIPHERAL VASCULAR DISEASE

NEUROSCIENCES & NEUROLOGY; CARDIOVASCULAR SYSTEM & CARDIOLOGY

NA

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2020-11-27

NA

UNIV MED CTR UTRECHT#UNIV UTRECHT#UNIV MED CTR UTRECHT

NETHERLANDS#NETHERLANDS#NETHERLANDS

465

J

WOS:000214916200007

2014

THE LION HAS ROARED: THEOLOGICAL THEMES IN THE PROPHETIC LITERATURE OF THE OLD TESTAMENT

NA

NA

NA

JOURNAL OF REFORMED THEOLOGY

BECKING, B

[BECKING, BOB] UNIV UTRECHT, UTRECHT, NETHERLANDS.

RELIGION

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PEELS H. G. L., 2012, LION HAS ROARED THEO

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2020-11-27

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UNIV UTRECHT

NETHERLANDS

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WOS:000211204100008

2014

NEGOTIATING POLITICAL IDENTITIES. MULTIETHNIC SCHOOLS AND YOUTH IN EUROPE

NA

NA

NA

PEDAGOGY CULTURE AND SOCIETY

MONTESSORI, NM

[MONTESSORI, NICOLINA] UTRECHT UNIV APPL SCI, UTRECHT, NETHERLANDS.

EDUCATION & EDUCATIONAL RESEARCH

EDUCATION & EDUCATIONAL RESEARCH

BENHABIB S., 2005, RIGHT HAVE RIGHTS CO##BHASKAR, 1978, REALIST THEORY SCI##BIESTA G. J. J., LEARNING DEMOCRACY S##FAAS D., 2010, MUSLIMS 21 CENTURY E##FAAS D., 2010, NEGOTIATING POLITICA##FOUCAULT M, 1988, TECHNOLOGIES SELF SE, P16, DOI DOI 10.1080/09518398.2013.786849##FOUCAULT M., 1980, POWER KNOWLEDGE SELE, P13##HABERMAS JURGEN, 1994, MULTICULTURALISM EXA, P107, DOI DOI 10.2307/J.CTT7SNKJ.10##HALL S., 1992, MODERNITY ITS FUTURE, VIV, P273##MONTESSORI NM, 2012, EDUC ACTION RES, V20, P251, DOI 10.1080/09650792.2012.676302##YOUNG I. M., 2000, INCLUSION DEMOCRACY

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2020-11-27

NA

UTRECHT UNIV APPL SCI

NETHERLANDS

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J

WOS:000242786500013

2006

PHASE-CORRELATED NONDIRECTIONAL LASER EMISSION FROM THE END FACETS OF A ZNO NANOWIRE

WE INVESTIGATED THE LASER EMISSION FROM INDIVIDUAL ZNO NANOWIRES AND OBSERVED AN INTERFERENCE PATTERN DUE TO COHERENT LASER EMISSION FROM THE WIRE END FACETS. COMPARISON WITH NUMERICAL SIMULATIONS SHOWS THAT THE LASER LIGHT IS EMITTED NEARLY SPHERICALLY FROM THE WIRE ENDS. THE ENERGY SPACING BETWEEN SHARP LASING MODES SCALES WITH THE INVERSE LENGTH OF THE NANOWIRE; THUS, LASER EMISSION PEAKS CORRESPOND TO FABRY-PEROT MODES OF THE NANOWIRE CAVITY.

SUBWAVELENGTH PHOTONICS INTEGRATION; ROOM-TEMPERATURE; WAVE-GUIDES

NA

NANO LETTERS

VAN VUGT, LK##RUHLE, S##VANMAEKELBERGH, D

UNIV UTRECHT, DEBYE INST, NL-3508 TA UTRECHT, NETHERLANDS.

CHEMISTRY, MULTIDISCIPLINARY; CHEMISTRY, PHYSICAL; NANOSCIENCE & NANOTECHNOLOGY; MATERIALS SCIENCE, MULTIDISCIPLINARY; PHYSICS, APPLIED; PHYSICS, CONDENSED MATTER

CHEMISTRY; SCIENCE & TECHNOLOGY - OTHER TOPICS; MATERIALS SCIENCE; PHYSICS

AGARWAL R, 2005, NANO LETT, V5, P917, DOI 10.1021/NL050440U##BAYER M, 2002, PHYS STATUS SOLIDI A, V191, P3, DOI 10.1002/1521-396X(200205)191:1<3::AID-PSSA3>3.0.CO;2-M##BORN M., 1933, OPTIK, P235##CHIN AH, 2006, APPL PHYS LETT, V88, DOI 10.1063/1.2198017##DING JX, 2004, APPL PHYS LETT, V85, P2361, DOI 10.1063/1.1791326##DUAN XF, 2003, NATURE, V421, P241, DOI 10.1038/NATURE01353##GRADECAK S, 2005, APPL PHYS LETT, V87, DOI 10.1063/1.2115087##HAUSCHILD R, 2006, PHYS STATUS SOLIDI B, V243, P853, DOI 10.1002/PSSB.200564718##HUANG MH, 2001, SCIENCE, V292, P1897, DOI 10.1126/SCIENCE.1060367##HUANG MH, 2001, ADV MATER, V13, P113, DOI 10.1002/1521-4095(200101)13:2<113::AID-ADMA113>3.0.CO;2-H##HUANG Y, 2005, SMALL, V1, P142, DOI 10.1002/SMLL.200400030##JOHNSON JC, 2003, J PHYS CHEM B, V107, P8816, DOI 10.1021/JP034482N##LAW M, 2004, SCIENCE, V305, P1269, DOI 10.1126/SCIENCE.1100999##MASLOV AV, 2004, OPT LETT, V29, P572, DOI 10.1364/OL.29.000572##MASLOV AV, 2006, J APPL PHYS, V99, DOI 10.1063/1.2164538##NOBIS T, 2004, PHYS REV LETT, V93, DOI 10.1103/PHYSREVLETT.93.103903##PAN AL, 2005, J PHYS CHEM B, V109, P24268, DOI 10.1021/JP055164M##PETTERSSON H, 2006, NANO LETT, V6, P229, DOI 10.1021/NL052170L##PRASANTH R, 2006, APPL PHYS LETT, V88, DOI 10.1063/1.2200230##SIRBULY DJ, 2005, J PHYS CHEM B, V109, P15190, DOI 10.1021/JP051813I##TONG LM, 2003, NATURE, V426, P816, DOI 10.1038/NATURE02193##WANG D, 2006, J APPL PHYS, V99, DOI 10.1063/1.2196148

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2020-11-20

NA

UNIV UTRECHT

NETHERLANDS

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WOS:000367481900074

2015

CHILDREN'S EXPERIENCE OF POSTTRAUMATIC GROWTH: DISTINGUISHING GENERAL FROM DOMAIN-SPECIFIC CORRELATES

ALTHOUGH THE FIVE DOMAINS OF POSTTRAUMATIC GROWTH (NEW POSSIBILITIES, RELATING TO OTHERS, PERSONAL STRENGTH, SPIRITUAL CHANGE AND APPRECIATION OF LIFE) HAVE BEEN STUDIED EXTENSIVELY IN ADULTS, LITTLE IS KNOWN ABOUT THESE DOMAINS AND THEIR CORRELATES IN CHILDREN. WE AIMED TO EXAMINE WHETHER DEMOGRAPHIC AND/OR SOCIAL CHARACTERISTICS ARE RELATED TO CHILDREN'S REPORTS OF OVERALL POSTTRAUMATIC GROWTH AND OF GROWTH IN SPECIFIC DOMAINS. IN A GENERAL POPULATION STUDY, CHILDREN AGED 8-12 YEARS WHO HAD BEEN EXPOSED TO ADVERSE EVENTS (N = 1290) FILLED OUT QUESTIONNAIRES ON THEIR EXPERIENCES, DEMOGRAPHIC CHARACTERISTICS (GENDER, AGE, TIME LAG SINCE EVENT), STRESS REACTIONS, PEER SUPPORT, RELIGIOSITY AND POSTTRAUMATIC GROWTH. ALL DEMOGRAPHIC AND SOCIAL CHARACTERISTICS WERE RELATED TO OVERALL POSTTRAUMATIC GROWTH, EXCEPT TIME LAG. ASSOCIATIONS VARIED ACROSS THE FIVE DOMAINS WITH THE STRONGEST EFFECTS BEING FOUND FOR STRESS REACTIONS AND RELIGIOSITY. A HIGHER LEVEL OF STRESS REACTIONS WAS RELATED TO MORE GROWTH IN ALL DOMAINS (GENERAL EFFECT), WHEREAS RELIGIOUS CHILDREN EXPERIENCED MORE SPIRITUAL GROWTH THAN NON-RELIGIOUS CHILDREN WITHOUT DIFFERENCES ON OTHER DOMAINS (DOMAIN SPECIFIC EFFECT). OTHER EFFECTS WERE SMALL, AND SOME DID NOT REMAIN SIGNIFICANT AFTER BONFERRONI CORRECTIONS. THESE FINDINGS SUGGEST THE PRESENCE OF BOTH GENERAL AND DOMAIN-SPECIFIC CORRELATES OF CHILD POSTTRAUMATIC GROWTH. ALTHOUGH EFFECTS WERE GENERALLY SMALL, THE CURRENT FINDINGS SHOW THE NEED TO DIFFERENTIATE BETWEEN THE DOMAINS OF POSTTRAUMATIC GROWTH IN BOTH FURTHER RESEARCH AND CLINICAL PRACTICE. THIS WILL ALLOW A BETTER UNDERSTANDING OF THE MECHANISMS OF POSTTRAUMATIC GROWTH IN CHILDREN AS WELL AS MORE TAILORED ASSESSMENT AND INTERVENTION.

QUALITY-OF-LIFE; GENDER-DIFFERENCES; ADOLESCENTS; BENEFIT; INVENTORY; SURVIVORS; CANCER

NA

PLOS ONE

LACEULLE, OM##KLEBER, RJ##ALISIC, E

[LACEULLE, ODILIA M.] TILBURG UNIV, MED & CLIN PSYCHOL, NL-5000 LE TILBURG, NETHERLANDS. [KLEBER, ROLF J.] UNIV UTRECHT, CLIN & HLTH PSYCHOL, UTRECHT, NETHERLANDS. [KLEBER, ROLF J.] NETHERLANDS & FDN ARQ, DIEMEN, NETHERLANDS. [ALISIC, EVA] MONASH UNIV, UMC UTRECHT, AUSTRALIA & NATL PSYCHOTRAUMA CTR CHILDREN & YOUT, MONASH INJURY RES INSITITUTE, UTRECHT, NETHERLANDS.

MULTIDISCIPLINARY SCIENCES

SCIENCE & TECHNOLOGY - OTHER TOPICS

ALISIC E, 2008, J CLIN PSYCHIAT, V69, P1455, DOI 10.4088/JCP.V69N0913##BARAKAT LP, 2006, J PEDIATR PSYCHOL, V31, P413, DOI 10.1093/JPEPSY/JSJ058##CALHOUN LG, 2006, HDB POSTTRAUMATIC GR, P3##COHEN LH, 1998, LEA SER PER CLIN PSY, P23##CURRIER JM, 2009, J PEDIATR PSYCHOL, V34, P1129, DOI 10.1093/JPEPSY/JSP021##GALLAWAY MS, 2011, J CLIN PSYCHOL, V67, P1151, DOI 10.1002/JCLP.20837##HAFSTAD GS, 2010, AM J ORTHOPSYCHIAT, V80, P248, DOI 10.1111/J.1939-0025.2010.01028.X##HELGESON VS, 2006, J CONSULT CLIN PSYCH, V74, P797, DOI 10.1037/0022-006X.74.5.797##JANOFF-BULMAN R, 2004, PSYCHOL INQ, V15, P30##KARANCI AN, 2012, EUROPEAN J PSYCHOTRA, P3##KILMER RP., 2006, HDB POSTTRAUMATIC GR, P264##KILMER RP, 2009, J TRAUMA STRESS, V22, P248, DOI 10.1002/JTS.20410##KIMHI S, 2010, COMMUNITY MENT HLT J, V46, P10, DOI 10.1007/S10597-009-9183-X##KLEBER R. J., 2010, J CHILD ADOLESCENT T, V3, P192, DOI [DOI 10.1080/19361521.2010.500979, 10.1080/19361521.2010.500979]##LAUFER A, 2006, J SOC CLIN PSYCHOL, V25, P429, DOI 10.1521/JSCP.2006.25.4.429##LAUFER A, 2009, J SOC CLIN PSYCHOL, V28, P862, DOI 10.1521/JSCP.2009.28.7.862##MCMILLEN C, 1995, J CONSULT CLIN PSYCH, V63, P1037, DOI 10.1037/0022-006X.63.6.1037##MEYERSON DA, 2011, CLIN PSYCHOL REV, V31, P949, DOI 10.1016/J.CPR.2011.06.003##MILAM JE, 2004, J ADOLESCENT RES, V19, P192, DOI 10.1177/0743558403258273##MORRIS BA, 2005, J TRAUMA STRESS, V18, P575, DOI 10.1002/JTS.20067##NISHI D, 2010, RES POSTTRAUMATIC GR##NOLEN-HOEKSEMA S, 2004, PSYCHOL INQ, V15, P60##NOLENHOEKSEMA S, 1994, PSYCHOL BULL, V115, P424, DOI 10.1037/0033-2909.115.3.424##PRATI G, 2009, J LOSS TRAUMA, V14, P364, DOI 10.1080/15325020902724271##RAVENS-SIEBERER U, 2007, QUAL LIFE RES, V16, P1347, DOI 10.1007/S11136-007-9240-2##SALTER E, 2004, J TRAUMA STRESS, V17, P335, DOI 10.1023/B:JOTS.0000038482.53911.01##STANTON AL, 2006, POSTTRAUMATIC GROWTH##TEDESCHI R. G., 1995, TRAUMA TRANSFORMATIO##TEDESCHI RG, 2004, PSYCHOL INQ, V15, P1, DOI 10.1207/S15327965PLI1501\_01##TEDESCHI RG, 1996, J TRAUMA STRESS, V9, P455, DOI 10.1007/BF02103658##VISHNEVSKY T, 2010, PSYCHOL WOMEN QUART, V34, P110, DOI 10.1111/J.1471-6402.2009.01546.X##WOLCHIK SA, 2008, OMEGA-J DEATH DYING, V58, P107, DOI 10.2190/OM.58.2.B##YU XN, 2010, J AFFECT DISORDERS, V123, P327, DOI 10.1016/J.JAD.2009.09.019

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2020-11-29

MADURODAMFONDS (THE HAGUE, THE NETHERLANDS)NETHERLANDS GOVERNMENT; FONDS SLACHTOFFERHULP (THE HAGUE, THE NETHERLANDS)NETHERLANDS GOVERNMENT; STICHTING ACHMEA SLACHTOFFER EN SAMENLEVING (ZEIST, THE NETHERLANDS)NETHERLANDS GOVERNMENT; MONASH UNIVERSITY (AUSTRALIA)MONASH UNIVERSITY

TILBURG UNIV#UNIV UTRECHT#NETHERLANDS FDN ARQ#MONASH UNIV

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WOS:000347181800007

2014

THE PUPILLARY LIGHT RESPONSE REFLECTS EXOGENOUS ATTENTION AND INHIBITION OF RETURN

HERE WE SHOW THAT THE PUPILLARY LIGHT RESPONSE REFLECTS EXOGENOUS (INVOLUNTARY) SHIFTS OF ATTENTION AND INHIBITION OF RETURN. PARTICIPANTS FIXATED IN THE CENTER OF A DISPLAY THAT WAS DIVIDED INTO A BRIGHT AND A DARK HALF. AN EXOGENOUS CUE ATTRACTED ATTENTION TO THE BRIGHT OR DARK SIDE OF THE DISPLAY. INITIALLY, THE PUPIL CONSTRICTED WHEN THE BRIGHT, AS COMPARED TO THE DARK, SIDE OF THE DISPLAY WAS CUED, REFLECTING A SHIFT OF ATTENTION TOWARD THE EXOGENOUS CUE. CRUCIALLY, THIS PATTERN REVERSED ABOUT 1 S AFTER CUE PRESENTATION. THIS LATER-OCCURRING, RELATIVE DILATION (WHEN THE BRIGHT SIDE WAS CUED) REFLECTED DISENGAGEMENT FROM THE PREVIOUSLY ATTENDED LOCATION, ANALOGOUS TO THE BEHAVIORAL PHENOMENON OF INHIBITION OF RETURN. INDEED, WE OBSERVED A RELIABLE CORRELATION BETWEEN ""PUPILLARY INHIBITION"" AND BEHAVIORAL INHIBITION OF RETURN. OUR RESULTS SUPPORT THE VIEW THAT INHIBITION OF RETURN RESULTS FROM HABITUATION TO (OR SHORT-TERM DEPRESSION OF) VISUAL INPUT. WE CONCLUDE THAT THE PUPILLARY LIGHT RESPONSE IS A COMPLEX EYE MOVEMENT THAT REFLECTS HOW WE SELECTIVELY PARSE AND INTERPRET VISUAL INPUT.

NA

PUPILLOMETRY; VISUAL ATTENTION; INHIBITION OF RETURN; EYE MOVEMENTS

JOURNAL OF VISION

MATHOT, S##DALMAIJER, E##GRAINGER, J##VAN DER STIGCHEL, S

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OPHTHALMOLOGY

OPHTHALMOLOGY

AWH E, 2006, TRENDS COGN SCI, V10, P124, DOI 10.1016/J.TICS.2006.01.001##BAAYEN RH, 2008, J MEM LANG, V59, P390, DOI 10.1016/J.JML.2007.12.005##BARANY EH, 1948, J NEUROPHYSIOL, V11, P25##BINDA P, 2014, J NEUROPHYSIOL, V112, P3046, DOI 10.1152/JN.00502.2014##BINDA P, 2013, J VISION, V13, DOI 10.1167/13.6.8##BINDA P, 2013, J NEUROSCI, V33, P2199, DOI 10.1523/JNEUROSCI.3440-12.2013##CHICA AB, 2010, J EXP PSYCHOL HUMAN, V36, P1193, DOI 10.1037/A0019951##CORNEIL BD, 2014, NEURON, V82, P1230, DOI 10.1016/J.NEURON.2014.05.040##FAHLE MW, 2011, FRONT HUM NEUROSCI, V5, DOI 10.3389/FNHUM.2011.00120##FECTEAU JH, 2005, J COGNITIVE NEUROSCI, V17, P1714, DOI 10.1162/089892905774589235##HARMS H, 1937, GRAEFES ARCH CLIN EX, V138, P149, DOI [10.1007/BF01854538, DOI 10.1007/BF01854538]##KLEIN R, 1988, NATURE, V334, P430, DOI 10.1038/334430A0##LAENG B, 2014, PSYCHOL SCI, V25, P188, DOI 10.1177/0956797613503556##LAENG B, 2012, P NATL ACAD SCI USA, V109, P2162, DOI 10.1073/PNAS.1118298109##LOWE SW, 1966, ARCH OPHTHALMOL-CHIC, V75, P395##MATHOT S., 2013, SIMPLE WAY RECONSTRU, DOI 10.6084/M9.FIGSHARE,688001.##MATHOT S., J EXPT PSYC IN PRESS##MATHOT S, 2013, PLOS ONE, V8, DOI 10.1371/JOURNAL.PONE.0078168##MATHOT S, 2012, BEHAV RES METHODS, V44, P314, DOI 10.3758/S13428-011-0168-7##NABER M, 2013, FRONT PSYCHOL, V4, DOI 10.3389/FPSYG.2013.00919##NABER M, 2013, J VISION, V13, DOI 10.1167/13.6.7##NABER M, 2011, PLOS ONE, V6, DOI 10.1371/JOURNAL.PONE.0020910##PEIRCE JW, 2007, J NEUROSCI METH, V162, P8, DOI 10.1016/J.JNEUMETH.2006.11.017##POSNER MI, 1984, ATTENTION PERFORM, V10, P531##RATCLIFF R, 1993, PSYCHOL BULL, V114, P510, DOI 10.1037/0033-2909.114.3.510##SAMUEL AG, 2003, PSYCHON B REV, V10, P897, DOI 10.3758/BF03196550##SATEL J, 2011, VISION RES, V51, P987, DOI 10.1016/J.VISRES.2011.02.013##THEEUWES J, 2014, ATTEN PERCEPT PSYCHO, V76, P2249, DOI 10.3758/S13414-014-0718-Z##WANG CA, 2012, J NEUROSCI, V32, P3629, DOI 10.1523/JNEUROSCI.5512-11.2012

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2020-11-27

PEOPLE PROGRAMME (MARIE CURIE ACTIONS) OF THE EUROPEAN UNION'S SEVENTH FRAMEWORK PROGRAMME UNDER REA GRANTEUROPEAN UNION (EU) [622738]; ERCEUROPEAN RESEARCH COUNCIL (ERC) [230313]; EUROPEAN UNION FP7 MARIE CURIE ITN GRANT [606901]

AIX MARSEILLE UNIV#UNIV UTRECHT#UNIV OXFORD

FRANCE#NETHERLANDS#ENGLAND

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WOS:000238400900003

2006

WHAT IS THE DUAL OF A DIPOLE?

WE STUDY, GRAVITATIONAL SOLUTIONS THAT ADMIT A DUAL CFT DESCRIPTION AND CARRY NON-ZERO DIPOLE CHARGE. WE FOCUS ON THE BLACK RING SOLUTION IN ADS(3) X S-3 AND EXTRACT FROM IT THE ONE-POINT FUNCTIONS OF ALL CFT OPERATORS DUAL TO SCALAR EXCITATIONS OF THE SIX-DIMENSIONAL METRIC. IN THE CASE OF SMALL BLACK RINGS, CHARACTERIZED BY THE LEVEL N, ANGULAR MOMENTUM J AND DIPOLE CHARGE Q(3), WE SHOW HOW THE LARGE N AND J DEPENDENCE OF THE ONE-POINT FUNCTIONS CAN BE REPRODUCED, UNDER CERTAIN ASSUMPTIONS, DIRECTLY FROM A SUITABLE ENSEMBLE IN THE DUAL CFT. FINALLY WE PRESENT A SIMPLE TOY MODEL THAT DESCRIBES THE THERMODYNAMICS OF THE SMALL BLACK RING FOR ARBITRARY VALUES OF THE DIPOLE CHARGE. (C) 2006 ELSEVIER B.V. ALL RIGHTS RESERVED.

BLACK-HOLES; SUPERGRAVITY; ALGEBRAS; SPECTRUM; MODULI; LEVEL

NA

NUCLEAR PHYSICS B

ALDAY, LF##DE BOER, J##MESSAMAH, I

UNIV UTRECHT, INST THEORET PHYS, NL-3508 TD UTRECHT, NETHERLANDS. UNIV UTRECHT, SPINOZA INST, NL-3508 TD UTRECHT, NETHERLANDS. INST THEORET FYS, NL-1018 XE AMSTERDAM, NETHERLANDS.

PHYSICS, PARTICLES & FIELDS

PHYSICS

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UNIV UTRECHT#UNIV UTRECHT#INST THEORET FYS

NETHERLANDS#NETHERLANDS#NETHERLANDS

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2006

IS USE OF ASTHMA MEDICATION IN PRESCHOOL CHILDREN CONSISTENT WITH THE CLINICAL WHEEZING PHENOTYPE?

NA

NA

NA

PHARMACOEPIDEMIOLOGY AND DRUG SAFETY

ZUIDGEEST, MG##BRACKE, M##SMIT, HA##BRUNEKREEF, B##LEUFKENS, HG

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PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH; PHARMACOLOGY & PHARMACY

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2014

ANTI-ISLAM PROPAGANDA AND ITS EFFECTS FITNA, FEAR-BASED COMMUNICATION AND THE MODERATING ROLE OF PUBLIC DEBATE

IN 2008, A SHORT DUTCH ANTI-ISLAM PROPAGANDA MOVIE CALLED FITNA CAUSED GLOBAL PUBLIC OUTRAGE AND A BRIEF MEDIA STORM. SUCH ATTENTION IS GENERALLY CONSIDERED UNDESIRABLE 'MEDIAHYPE' THAT INCREASES THE NUMBER OF PEOPLE THAT WILL VIEW THE FILM AND THUS POTENTIALLY ALSO ITS SOCIETAL IMPACT. IN THIS ARTICLE, HOWEVER, WE PRESENT A THEORETICAL MODEL THAT SUGGESTS THAT EXTENSIVE MEDIA COVERAGE MAY, IN SOME CASES, ACTUALLY SERVE TO DIMINISH THE IMPACT OF ANTI-ISLAM PROPAGANDA. WE DEMONSTRATE THE VALIDITY OF THIS MODEL USING AN EXPERIMENTAL STUDY ON THE EFFECTS OF THE MOVIE FITNA ON NON-MUSLIM VIEWERS. THE RESULTS SHOW THAT THOSE VIEWERS WHO HAD FOLLOWED THIS DEBATE CLOSELY WERE LESS AFFECTED BY FITNA. THESE EFFECTS WERE UPHELD EVEN WHEN WE CONTROLLED FOR THEIR POLITICAL PREFERENCES AND EDUCATIONAL LEVELS; THIS SUGGESTS THAT EXPOSURE TO EXTENSIVE DEBATE ABOUT ANTI-ISLAM PROPAGANDA MAY SERVE TO 'INOCULATE' NON-MUSLIM VIEWERS AGAINST ITS FEAR-BASED APPEAL.

MEDIA; APPEALS

FEAR APPEAL; PREJUDICE; ELABORATION LIKELIHOOD MODEL; FITNA

MIDDLE EAST JOURNAL OF CULTURE AND COMMUNICATION

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HUMANITIES, MULTIDISCIPLINARY

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2014

THE GREEN RIVER NATURAL ANALOGUE AS A FIELD LABORATORY TO STUDY THE LONG-TERM FATE OF CO2 IN THE SUBSURFACE

UNDERSTANDING THE LONG-TERM RESPONSE OF CO2 INJECTED INTO POROUS RESERVOIRS IS ONE OF THE MOST IMPORTANT ASPECTS TO DEMONSTRATE SAFE AND PERMANENT STORAGE. IN ORDER TO PROVIDE QUANTITATIVE CONSTRAINTS ON THE LONG-TERM IMPACTS OF CO2-CHARGED FLUIDS ON THE INTEGRITY OF RESERVOIR-CAPROCK SYSTEMS WE RECOVERED SOME 300M OF CORE FROM A SCIENTIFIC DRILL HOLE THROUGH A NATURAL CO2 RESERVOIR, NEAR GREEN RIVER, UTAH. WE OBTAINED GEOMECHANICAL, MINERALOGICAL, GEOCHEMICAL, PETROPHYSICAL AND MINERALOGICAL LABORATORY DATA ALONG THE ENTIRE LENGTH OF THE CORE AND FROM NON CO2-CHARGED CONTROL SAMPLES. FURTHERMORE, WE PERFORMED MORE DETAILED STUDIES THROUGH PORTIONS OF LOW PERMEABILITY LAYERS IN DIRECT CONTACT WITH CO2-CHARGED LAYERS. THIS WAS DONE TO CONSTRAIN THE NATURE AND PENETRATION DEPTHS OF CO2-PROMOTED FLUID-MINERAL REACTION FRONTS. THE MAJOR REACTIONS IDENTIFIED INCLUDE THE DISSOLUTION OF DIAGENETIC DOLOMITE CEMENTS AND HEMATITE GRAIN COATINGS, AND THE PRECIPITATION OF ANKERITE AND PYRITE AND HAVE BEEN USED AS INPUT FOR GEOCHEMICAL 1D REACTIVE TRANSPORT MODELLING, TO CONSTRAIN THE MAGNITUDE AND VELOCITY OF THE MINERAL-FLUID REACTION FRONT. IN ADDITION, WE COMPARED GEOMECHANICAL DATA FROM THE CO2-EXPOSED CORE AND RELATED UNREACTED CONTROL SAMPLES TO ASSESS THE MECHANICAL STABILITY OF RESERVOIR AND SEAL ROCKS IN A CO2 STORAGE COMPLEX FOLLOWING MINERAL DISSOLUTION AND PRECIPITATION FOR THOUSANDS OF YEARS. THE OBTAINED MECHANICAL PARAMETERS WERE COUPLED TO MINERALOGY AND POROSITY. KEY AIM OF THIS WORK WAS TO BETTER QUANTIFY THE EFFECT OF LONG-TERM CHEMICAL CO2/BRINE/ROCK INTERACTIONS ON THE MECHANICAL STRENGTH AND ELASTIC PROPERTIES OF THE STUDIED FORMATIONS. (C) 2014 THE AUTHORS. PUBLISHED BY ELSEVIER LTD.

FLUID-FLOW; RESERVOIR; DILATANCY; ROCK

NATURAL CO2 ANALOGUE; REACTION PROFILE; CO2-WATER-ROCK INTERACTION; GREEN RIVER

12TH INTERNATIONAL CONFERENCE ON GREENHOUSE GAS CONTROL TECHNOLOGIES, GHGT-12

BUSCH, A##KAMPMAN, N##HANGX, SJ##SNIPPE, J##BICKLE, M##BERTIER, P##CHAPMAN, H##SPIERS, CJ##PIJNENBURG, R##SAMUELSON, J##EVANS, JP##MASKELL, A##NICHOLL, J##PIPICH, V##DI, Z##ROTHER, G##SCHALLER, M

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CHEMISTRY, APPLIED; ENERGY & FUELS

CHEMISTRY; ENERGY & FUELS

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SHELL GLOBAL SOLUT INT#UNIV LANCASTER#BRITISH GEOL SURVEY#UNIV UTRECHT#UNIV CAMBRIDGE#RHEIN WESTFAL TH AACHEN#UTAH STATE UNIV#JULICH CTR NEURTON SCI JCNS#OAK RIDGE NATL LAB#RUTGERS STATE UNIV

NETHERLANDS#ENGLAND#ENGLAND#NETHERLANDS#ENGLAND#GERMANY#UT USA#GERMANY#TN USA#NJ USA

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2014

""USING MODIS LAND SURFACE TEMPERATURES AND THE CROCUS SNOW MODEL TO UNDERSTAND THE WARM BIAS OF ERA-INTERIM REANALYSES AT THE SURFACE IN ANTARCTICA"" PUBLISHED IN THE CRYOSPHERE (VOL 8, PG 1361, 2014)

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CRYOSPHERE

FREVILLE, H##BRUN, E##PICARD, G##TATARINOVA, N##ARNAUD, L##LANCONELLI, C##REIJMER, C##VAN DEN BROEKE, M

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GEOGRAPHY, PHYSICAL; GEOSCIENCES, MULTIDISCIPLINARY

PHYSICAL GEOGRAPHY; GEOLOGY

FREVILLE H, 2014, USING MODIS LAND SUR, V8, P1361

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FRANCE#FRANCE#FRANCE#FRANCE#ITALY#NETHERLANDS

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2014

RESPONSE INHIBITION PREDICTS PAINFUL TASK DURATION AND PERFORMANCE IN HEALTHY INDIVIDUALS PERFORMING A COLD PRESSOR TASK IN A MOTIVATIONAL CONTEXT

BACKGROUNDLONG-TERM AVOIDANCE OF PAINFUL ACTIVITIES HAS SHOWN TO BE DYSFUNCTIONAL IN CHRONIC PAIN. PAIN MAY ELICIT ESCAPE OR AVOIDANCE RESPONSES AUTOMATICALLY, PARTICULARLY WHEN PAIN-RELATED FEAR IS HIGH. A CONFLICT MAY ARISE BETWEEN OPPOSING SHORT-TERM ESCAPE/AVOIDANCE GOALS TO REDUCE PAIN AND LONG-TERM APPROACH GOALS TO RECEIVE A REWARD. AN INHIBITORY CONTROL SYSTEM MAY RESOLVE THIS CONFLICT. IT WAS HYPOTHESIZED THAT REDUCED RESPONSE INHIBITION WOULD BE ASSOCIATED WITH GREATER ESCAPE/AVOIDANCE DURING PAIN, PARTICULARLY AMONG SUBJECTS WITH HIGHER PAIN-RELATED FEAR. METHODSRESPONSE INHIBITION WAS MEASURED WITH THE STOP-SIGNAL TASK, AND PAIN-RELATED FEAR WITH THE FEAR OF PAIN QUESTIONNAIRE. PARTICIPANTS COMPLETED A TONE-DETECTION TASK (TDT) IN WHICH THEY COULD EARN MONEY WHILE BEING EXPOSED TO COLD PRESSOR PAIN. ESCAPE/AVOIDANCE WAS OPERATIONALIZED AS THE HAND IMMERSION TIME DURING A COLD PRESSOR TASK (CPT) AND THE PERFORMANCE ON THE TDT. RESULTSPOORER RESPONSE INHIBITION WAS ASSOCIATED WITH SHORTER CPT IMMERSION DURATION AND WITH WORSE TDT PERFORMANCE. PAIN AFTER THE CPT WAS ASSOCIATED WITH PAIN-RELATED FEAR, BUT NOT WITH RESPONSE INHIBITION. NO SUPPORTIVE EVIDENCE WAS FOUND FOR THE HYPOTHESIS THAT THE RELATION BETWEEN INHIBITION AND ESCAPE/AVOIDANCE WOULD BE MOST PRONOUNCED FOR THOSE WITH HIGHER PAIN-RELATED FEAR. IN CONTRAST, THE RELATION BETWEEN RESPONSE INHIBITION AND NUMBER OF HITS ON THE TDT WAS MOST PRONOUNCED FOR THOSE WITH LOWER PAIN-RELATED FEAR. CONCLUSIONSTHE FINDINGS SUGGEST THAT INDIVIDUALS WITH A STRONGER ABILITY TO INHIBIT RESPONSES IN A STOP-SIGNAL TASK ARE BETTER ABLE TO INHIBIT ESCAPE/AVOIDANCE RESPONSES ELICITED BY PAIN, IN THE SERVICE OF A CONFLICTING APPROACH GOAL.

CHRONIC MUSCULOSKELETAL PAIN; FEAR-AVOIDANCE MODEL; THREAT-EXPECTANCY; SELF-CONTROL; LOW-BACK; DISTRACTION; ATTENTION; ANXIETY; TOLERANCE; IMPULSIVITY

NA

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ANESTHESIOLOGY; CLINICAL NEUROLOGY; NEUROSCIENCES

ANESTHESIOLOGY; NEUROSCIENCES & NEUROLOGY

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OPTIMISING WASTE TREATMENT SYSTEMS - PART A: METHODOLOGY AND TECHNOLOGICAL DATA FOR OPTIMISING ENERGY PRODUCTION AND ECONOMIC PERFORMANCE

THE TREATMENT AND UTILISATION OF BIOMASS RESIDUES AND WASTE FOR ENERGY AND RECYCLING CAN CONTRIBUTE SIGNIFICANTLY TO GREENHOUSE GAS EMISSION REDUCTION. THEREFORE, A WASTE TREATMENT STRUCTURE SHOULD BE DESIGNED FOR AN EFFICIENT SAVING OF FOSSIL PRIMARY ENERGY IN TERMS OF MAXIMAL PRIMARY ENERGY SAVINGS OR MINIMAL COSTS PER UNIT OF PRIMARY ENERGY SAVINGS. HOWEVER, THIS IS A COMPLEX TASK, GIVEN THE LARGE NUMBER OF TECHNOLOGIES, RECYCLING OPTIONS AND THEIR LOGISTIC CONSEQUENCES, THAT NECESSITATE AN INTEGRATED ANALYSIS. ALSO, ON LONGER TERM VARIOUS NEW AND IMPROVED TECHNOLOGIES BECOME AVAILABLE WHICH CAN AFFECT PERFORMANCES FOR OPTIONS FROM AN ECONOMIC AND/OR ENERGY POINT OF VIEW. FOR THAT REASON, AN OPTIMISATION TOOL, THAT OPTIMISES A BIOMASS AND WASTE TREATMENT SYSTEM FOR A GIVEN AMOUNT OF BIOMASS AND WASTE, IS DEVELOPED IN THIS STUDY. THIS OPTIMAL BIOMASS AND WASTE TREATMENT SYSTEM IS COMPOSED OF SEVERAL TREATMENT INSTALLATIONS, THAT ARE CHARACTERISED BY SCALE, LOCATION AND KIND OF TECHNOLOGY. IMPORTANT ASPECTS THAT ARE TAKEN INTO ACCOUNT IN THE ANALYSIS ARE HEAT DISTRIBUTION, BIOMASS AND WASTE TRANSPORT AND ECONOMIES OF SCALE. A BROAD VARIETY OF TECHNOLOGIES FOR MATERIAL RECYCLING, CONVERSION OF BIOMASS AND/OR WASTE TO HEAT, ELECTRICITY OR TRANSPORTATION FUEL ARE INCLUDED IN THE OPTIMISATION TOOL. PERFORMANCE DATA OF THESE TECHNOLOGIES ARE BASED ON AN EXTENSIVE REVIEW. EXAMPLES OF INCLUDED TECHNOLOGIES COMPRISE: INTEGRATED GASIFICATION WITH COMBINED CYCLE, WASTE INCINERATION, PYROLYSIS, DIGESTION, CO-FIRING IN FOSSIL POWER PLANTS, BIOMASS INCINERATION, HYDRO-THERMAL UPGRADING, PAPER RECYCLING AND CHIPBOARD PRODUCTION. A COMPARISON OF THE DIFFERENT TECHNOLOGIES IN RELATION TO SCALE SHOWS THAT PRIMARY ENERGY SAVINGS AND COSTS PER UNIT OF PRIMARY ENERGY SAVINGS DIVERGE SIGNIFICANTLY. IN GENERAL, THE OPTIMISATION TOOL DEVELOPED HERE IS SUITABLE FOR ANALYSES OF OPTIMAL BIOMASS AND WASTE TREATMENT STRUCTURES IN DIFFERENT REGIONS WITH REGARD TO PRIMARY ENERGY SAVINGS AND THEIR COSTS. BY MEANS OF SCENARIO ANALYSIS, ROBUST OPTIMAL SOLUTIONS IN TERMS OF PRIMARY ENERGY SAVINGS AND THEIR COSTS CAN BE IDENTIFIED AND THE INFLUENCE OF IMPORTANT PARAMETERS CAN BE ANALYSED. A CASE STUDY OF THE DUTCH BIOMASS AND WASTE TREATMENT SYSTEMS HAS BEEN CARRIED OUT WITH THE OPTIMISATION TOOL AND IS PRESENTED IN PART TWO OF THIS ARTICLE. (C) 2006 ELSEVIER B.V. ALL RIGHTS RESERVED.

POWER; HEAT

SOLID WASTE; RECYCLING; PRIMARY ENERGY SAVINGS; OPTIMISATION; WASTE TREATMENT; BIOMASS

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PROSPECTIVE COROLLARY OF OPHTHALMIC NANOMEDICINE A CONCEPT SHIFT TOWARD CHITOSAN-BASED MUCOADHESIVE NANOMEDICINE

NA

OCULAR DRUG-DELIVERY; SOLID LIPID NANOPARTICLES; ENDOTOXIN-INDUCED UVEITIS; IN-VITRO; PRECORNEAL RETENTION; PLGA NANOPARTICLES; EPITHELIAL-CELLS; EYE DROPS; SYSTEMS; CARRIERS

NA

CHITIN AND CHITOSAN DERIVATIVES: ADVANCES IN DRUG DISCOVERY AND DEVELOPMENTS

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EFFECT OF CUMULUS MORPHOLOGY AND MATURATION STAGE ON THE CRYOPRESERVABILITY OF EQUINE OOCYTES

OOCYTE CRYOPRESERVATION IS A POTENTIALLY VALUABLE WAY OF PRESERVING THE FEMALE GERM LINE. HOWEVER, THE DEVELOPMENTAL COMPETENCE OF CRYOPRESERVED OOCYTES IS PRESENTLY POOR. THIS STUDY INVESTIGATED WHETHER THE MORPHOLOGY OF THE CUMULUS COMPLEX SURROUNDING AN IMMATURE EQUINE OOCYTE AND/OR THE OOCYTE'S STAGE OF MATURATION AFFECT ITS CRYOPRESERVABILITY. COMPACT (CP) AND EXPANDED (EX) CUMULUS OOCYTE COMPLEXES (COCS) WERE VITRIFIED EITHER SHORTLY AFTER RECOVERY (GERMINAL VESICLE STAGE, GV) OR AFTER MATURATION IN VITRO (IVM); CRYOPROTECTANT-TREATED AND -UNTREATED NON-FROZEN OOCYTES SERVED AS CONTROLS. IN EXPERIMENT 1, OOCYTES MATURED IN VITRO AND THEN VITRIFIED, OR VICE VERSA, WERE EXAMINED FOR MATURATION STAGE AND MEIOTIC SPINDLE QUALITY. CP AND EX COCS VITRIFIED AT THE GV STAGE MATURED AT SIMILAR RATES DURING SUBSEQUENT IVM (41 VS 46% MIL), BUT MEIOTIC SPINDLE QUALITY WAS BETTER FOR CP THAN EX (63 VS 33% NORMAL SPINDLES). VITRIFYING OOCYTES AFTER IVM RESULTED IN DISAPPOINTING POST-WARMING SPINDLE QUALITY (32 VS 28% NORMAL FOR CP VS EX). IN EXPERIMENT 11, OOCYTES FROM CP AND EX COCS VITRIFIED AT THE GV OR MIL STAGES WERE FERTILIZED BY INTRACYTOPLASMIC SPERM INJECTION (ICSI) AND MONITORED FOR CLEAVAGE AND BLASTOCYST FORMATION. OOCYTES VITRIFIED PRIOR TO IVM YIELDED HIGHER CLEAVAGE RATES (34 AND 27% FOR CP AND EX CCICS) THAN THOSE VITRIFIED AFTER IVM (16 AND 4%). HOWEVER, ONLY ONE BLASTOCYST WAS PRODUCED FROM A SPERM-INJECTED VITRIFIED-WARMED OOCYTE (0.4 VS 9.3% AND 13% BLASTOCYSTS FOR CRYOPROTECTANT-EXPOSED AND -UNTREATED CONTROLS). IT IS CONCLUDED THAT, WHEN VITRIFICATION IS THE CHOSEN METHOD OF CRYOPRESERVATION, CP EQUINE CCICS AT THE GV STAGE OFFER THE BEST CHANCE OF AN MII OOCYTE WITH A NORMAL SPINDLE AND THE POTENTIAL FOR FERTILIZATION; HOWEVER, DEVELOPMENTAL COMPETENCE IS STILL REDUCED DRAMATICALLY.

INTRACYTOPLASMIC SPERM INJECTION; IN-VITRO MATURATION; INITIAL CHROMATIN CONFIGURATION; II HUMAN OOCYTES; BOVINE OOCYTES; DEVELOPMENTAL COMPETENCE; HORSE OOCYTES; MEIOTIC COMPETENCE; INVITRO MATURATION; GERMINAL VESICLE

NA

REPRODUCTION

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DEVELOPMENTAL BIOLOGY; REPRODUCTIVE BIOLOGY

DEVELOPMENTAL BIOLOGY; REPRODUCTIVE BIOLOGY

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2020-11-20

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UNIV UTRECHT#IST SPERIMENTALE ITALIANO LAZZARO SPALLANZANI#UNIV BOLOGNA

NETHERLANDS#ITALY#ITALY

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2015

ON A POSSIBLE BIAS IN ELEMENTAL CARBON MEASUREMENTS WITH THE SUNSET THERMAL/OPTICAL CARBON ANALYSER CAUSED BY UNSTABLE LASER SIGNAL

WE PRESENT RESULTS THAT DEMONSTRATE A POSSIBLE BIAS IN THE FRACTIONING OF TOTAL CARBON (TC) INTO ELEMENTAL CARBON (EC) AND ORGANIC CARBON (OC) FOR MEASUREMENTS WITH THE SUNSET LABORATORY INC. THERMAL/OPTICAL CARBON AEROSOL ANALYSER. THE BIAS IS CAUSED BY AN UNSTABLE LASER TRANSMISSION SIGNAL. THE TRANSMISSION SIGNAL DURING THE ANALYSIS OF AN INSTRUMENT BLANK FILTER CAN GIVE AN INDICATION OF THE POSSIBLE BIAS. IF THE TRANSMISSION SIGNAL AROUND THE OC/EC SPLIT POINT DEVIATES FROM ITS INITIAL VALUE, THE EC ATTRIBUTION IS ALTERED. IN A SENSITIVITY STUDY, WE SHOW THAT FOR A DEVIATION OF 10% THE EC CONTENT IS SUBSTANTIALLY BIASED. (C) 2015 ELSEVIER LTD. ALL RIGHTS RESERVED.

NA

ELEMENTAL CARBON; SPLIT POINT; THERMAL OPTICAL METHOD; SUNSET; UNSTABLE LASER TRANSMISSION SIGNAL

ATMOSPHERIC ENVIRONMENT

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ENVIRONMENTAL SCIENCES; METEOROLOGY & ATMOSPHERIC SCIENCES

ENVIRONMENTAL SCIENCES & ECOLOGY; METEOROLOGY & ATMOSPHERIC SCIENCES

CAVALLI F, 2010, ATMOS MEAS TECH, V3, P79, DOI 10.5194/AMT-3-79-2010##CEN, 2011, 16243 FPRCENTR

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2015

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NA

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ATMOSPHERIC ENVIRONMENT

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ENVIRONMENTAL SCIENCES; METEOROLOGY & ATMOSPHERIC SCIENCES

ENVIRONMENTAL SCIENCES & ECOLOGY; METEOROLOGY & ATMOSPHERIC SCIENCES

CAVALLI F, 2010, ATMOS MEAS TECH, V3, P79, DOI 10.5194/AMT-3-79-2010##CEN, 2011, 16243 FPRCENTR

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2015

THE BINARY-TO-TERNARY RHYTHMIC CONTINUUM IN STRESS TYPOLOGY: LAYERED FEET AND NON-INTERVENTION CONSTRAINTS

THIS ARTICLE PRESENTS A NOVEL OT ANALYSIS OF TERNARY RHYTHM, USING THE RESTRICTIVE FORMAT OF MCCARTHY (2003)'S CATEGORICAL ALIGNMENT CONSTRAINTS, WHICH WE WILL REFER TO AS 'NON-INTERVENTION CONSTRAINTS', USING THE TERMINOLOGY OF ELLISON (1994), AND ARGUES FOR THE REHABILITATION OF INTERNALLY LAYERED FEET IN METRICAL REPRESENTATIONS (I.E. FEET WITH ONE LAYER OF RECURSION). BY MEANS OF A COMPUTER-GENERATED FACTORIAL TYPOLOGY, WE DEMONSTRATE THAT THE CONSTRAINT SET PROPOSED HERE GENERATES THE FULL TYPOLOGY OF BINARY AND TERNARY RHYTHM. THE RESULTING TYPOLOGY SUGGESTS THAT THERE IS NO ABSOLUTE BOUNDARY BETWEEN BINARY AND TERNARY SYSTEMS; RATHER, A CONTINUUM EMERGES, SUCH THAT BINARY AND TERNARY FEET MAY COEXIST IN RHYTHMIC STRESS SYSTEMS.

ENGLISH; PHONOTACTICS; LOCALITY; WORD

NA

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LINGUISTICS; LANGUAGE & LINGUISTICS

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2020-11-29

CENTRE FOR ADVANCED STUDY IN THEORETICAL LINGUISTICS (CASTL) IN TROMSO; NETHERLANDS ORGANISATION FOR SCIENTIFIC RESEARCH (NWO)NETHERLANDS ORGANIZATION FOR SCIENTIFIC RESEARCH (NWO) [360-89-030]

NORWEGIAN UNIV SCI TECHNOL#UNIV UTRECHT

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WOS:000238688200063

2006

S-2 CONNECTOR VERSUS SUTURE - DISTAL CORONARY ANASTOMOSIS REMODELING, PATENCY, AND FUNCTION IN THE PIG

BACKGROUND-ANASTOMOTIC CONNECTORS COULD BE THE KEY TO LESS INVASIVE BYPASS SURGERY, INCLUDING ENDOSCOPIC PROCEDURES, BUT EQUIVALENCE TO CONVENTIONAL SUTURING NEEDS TO BE ESTABLISHED. A NOVEL DISTAL CORONARY CONNECTOR WAS TESTED PRE-CLINICALLY FOR SAFETY AND EFFICACY IN COMPARISON TO CONVENTIONAL SUTURING. METHODS AND RESULTS-LEFT INTERNAL THORACIC TO LEFT ANTERIOR DESCENDING CORONARY ARTERY BYPASSES WERE CONSTRUCTED OFF-PUMP IN 35 PIGS (73 +/- 8 KG). AN INTRALUMINAL METAL CONNECTOR (S(2)AS) WAS USED IN 21 AND CONVENTIONAL SUTURING IN 14 ANIMALS. S(2)AS ANASTOMOSIS CONSTRUCTION WAS EASIER ACHIEVED IN ONE-FOURTH OF THE CONVENTIONAL CONSTRUCTION TIME (3.7 +/- 0.7 VERSUS 16.5 +/- 2.6 MINUTES; P < 0.001). ACUTE PATENCY TENDED TO BE BETTER (P = 0.15). ALL ANASTOMOSES WERE EVALUATED INTRAOPERATIVELY, AND SUBGROUPS AT 90 AND AT 180 DAYS. PATENCY WAS 100%. AN EFFECTIVE REMODELING RESPONSE WAS OBSERVED IN ALL GROUPS, RESULTING IN UNOBSTRUCTED ANASTOMOSES WITH EXCELLENT HEMODYNAMIC PERFORMANCE (FRACTIONAL FLOW RESERVE >= 0.93 AT 180 DAYS). AT 6 MONTHS, THE NONCOMPLIANT CONNECTOR WAS COVERED WITH STABILIZED NEOINTIMA THAT WAS THINNER THAN FOUND ON THE SUTURE LINE (0.10 +/- 0.04 VERSUS 0.31 +/- 0.13 MM; P = 0.01). THE CONNECTOR INDUCED LESS LUMEN LOSS ( - 0.6 +/- 6.5 VERSUS 21.6 +/- 19%; P = 0.03). THE INITIAL SIDE-TO-SIDE CONFIGURATION HAD REMODELED TO AN END-TO-SIDE SHAPE AS INTENDED. CONCLUSIONS - IN THE PORCINE MODEL, THE CONNECTOR RAPIDLY AND CONSISTENTLY PRODUCED HIGH-QUALITY ANASTOMOSES THAT FULLY MET CURRENT STANDARDS ON PATENCY AND FUNCTION. UNCONVENTIONAL ASPECTS LIKE A NONCOMPLIANT INTRALUMINAL RING AND A SIDE-TO-SIDE TO END-TO-SIDE CONVERTED CONFIGURATION DID NOT INTERFERE WITH FAVORABLE ANASTOMOSIS REMODELING. THESE FINDINGS SHED A NEW LIGHT ON THE ANATOMICAL PREREQUISITES FOR ANASTOMOSIS PATENCY.

NA

ANASTOMOSIS; BYPASS; CONNECTOR; HEMODYNAMIC; REMODELING; SURGERY

CIRCULATION

SUYKER, WJL##MATONICK, JP##SUYKER, PTW##DE LA RIVIERE, AB##BUIJSROGGE, MP##BUDDE, RPJ##VERLAAN, CWJ##PASTERKAMP, G##GRUNDEMAN, PF##BORST, C

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CARDIAC & CARDIOVASCULAR SYSTEMS; PERIPHERAL VASCULAR DISEASE

CARDIOVASCULAR SYSTEM & CARDIOLOGY

BOENING A, 2005, EUR J CARDIO-THORAC, V27, P876, DOI 10.1016/J.EJCTS.2004.12.065##BUDDE RPJ, 2005, EUR J CARDIO-THORAC, V28, P833, DOI 10.1016/J.EJCTS.2005.08.020##CARREL T, 2004, J THORAC CARDIOV SUR, V127, P1632, DOI 10.1016/J.JTCVS.2003.11.039##FISCHELL TA, 2001, CIRCULATION, V104, P2388, DOI 10.1161/CIRC.104.20.2388##HANGLER HB, 2004, ANN THORAC SURG, V77, P776, DOI 10.1016/J.ATHORACSUR.2003.08.052##KLIMA U, 2003, J THORAC CARDIOV SUR, V126, P1568, DOI 10.1016/S0022-5223(03)01314-X##SHO E, 2004, J VASC SURG, V39, P601, DOI 10.1016/J.JVS.2003.10.058##SUYKER WJL, 2004, J THORAC CARDIOV SUR, V127, P498, DOI 10.1016/J.JTCVS.2003.04.006##TOZZI P, 2001, EUR J CARDIO-THORAC, V19, P477, DOI 10.1016/S1010-7940(01)00617-0##WIKLUND L, 2005, J THORAC CARDIOV SUR, V129, P146, DOI 10.1016/J.JTCVS.2004.02.027##WOLF RK, 2003, J THORAC CARDIOV SUR, V126, P168, DOI 10.1016/S0022-5223(03)00234-4

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WOS:000455229400153

2014

ADAPTIVE EMOTIONAL EXPRESSION IN ROBOT-CHILD INTERACTION

EXPRESSIVE BEHAVIOUR IS A VITAL ASPECT OF HUMAN INTERACTION. A MODEL FOR ADAPTIVE EMOTION EXPRESSION WAS DEVELOPED FOR THE NAO ROBOT. THE ROBOT HAS AN INTERNAL AROUSAL AND VALENCE VALUE, WHICH ARE INFLUENCED BY THE EMOTIONAL STATE OF ITS INTERACTION PARTNER AND EMOTIONAL OCCURRENCES SUCH AS WINNING A GAME. IT EXPRESSES THESE EMOTIONS THROUGH ITS VOICE, POSTURE, WHOLE BODY POSES, EYE COLOUR AND GESTURES. AN EXPERIMENT WITH 18 CHILDREN (MEAN AGE 9) AND TWO NAO ROBOTS WAS CONDUCTED TO STUDY THE INFLUENCE OF ADAPTIVE EMOTION EXPRESSION ON THE INTERACTION BEHAVIOUR AND OPINIONS OF CHILDREN. IN A WITHIN-SUBJECTS DESIGN THE CHILDREN PLAYED A QUIZ WITH BOTH AN AFFECTIVE ROBOT USING THE MODEL FOR ADAPTIVE EMOTION EXPRESSION AND A NON-AFFECTIVE ROBOT WITHOUT THIS MODEL. THE AFFECTIVE ROBOT REACTED TO THE EMOTIONS OF THE CHILD USING THE IMPLEMENTATION OF THE MODEL, THE EMOTIONS OF THE CHILD WERE INTERPRETED BY A WIZARD OF OZ. THE DEPENDENT VARIABLES, NAMELY THE BEHAVIOUR AND OPINIONS OF THE CHILDREN, WERE MEASURED THROUGH VIDEO ANALYSIS AND QUESTIONNAIRES. THE RESULTS SHOW THAT CHILDREN REACT MORE EXPRESSIVELY AND MORE POSITIVELY TO A ROBOT WHICH ADAPTIVELY EXPRESSES ITSELF THAN TO A ROBOT WHICH DOES NOT. THE FEEDBACK OF THE CHILDREN IN THE QUESTIONNAIRES FURTHER SUGGESTS THAT SHOWING EMOTION THROUGH MOVEMENT IS CONSIDERED A VERY POSITIVE TRAIT FOR A ROBOT. FROM THEIR POSITIVE REACTIONS WE CAN CONCLUDE THAT CHILDREN ENJOY INTERACTING WITH A ROBOT WHICH ADAPTIVELY EXPRESSES ITSELF THROUGH EMOTION AND GESTURE MORE THAN WITH A ROBOT WHICH DOES NOT DO THIS.

NA

ADAPTIVE; EXPRESSIVE BEHAVIOUR; EMOTION; GESTURE; ROBOT-CHILD INTERACTION

HRI'14: PROCEEDINGS OF THE 2014 ACM/IEEE INTERNATIONAL CONFERENCE ON HUMAN-ROBOT INTERACTION

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COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; ENGINEERING, ELECTRICAL & ELECTRONIC; ROBOTICS

COMPUTER SCIENCE; ENGINEERING; ROBOTICS

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EUROPEAN UNION FP7 ALIZ-E PROJECT [248116]

UNIV UTRECHT#DELFT UNIV TECHNOL#UNIV UTRECHT#TNO HUMAN FACTORS

NETHERLANDS#NETHERLANDS#NETHERLANDS#NETHERLANDS

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2015

THE INFLUENCE OF LATE PLEISTOCENE GEOMORPHOLOGICAL INHERITANCE AND HOLOCENE HYDROMORPHIC REGIMES ON FLOODWATER FARMING IN THE TALGAR CATCHMENT, SOUTHEAST KAZAKHSTAN, CENTRAL ASIA

IN COMPARISON TO SOUTHWEST ASIA AND THE INDIAN SUBCONTINENT, THE RELATIONSHIP BETWEEN HOLOCENE RIVER DYNAMICS, CLIMATE CHANGE AND FLOODWATER FARMING IN CENTRAL ASIA IS SIGNIFICANTLY UNDER RESEARCHED. TO ADDRESS THIS, A MULTI-DISCIPLINARY RESEARCH PROJECT WAS BEGUN IN 2011 CENTRED ON THE TALGAR CATCHMENT, A SOUTH-BANK TRIBUTARY OF THE ILI RIVER, SOUTHEAST KAZAKHSTAN. BUILDING ON ARCHAEOLOGICAL EXCAVATIONS AND SURVEYS CONDUCTED OVER THE PAST 20 YEARS, WE HAVE UNDERTAKEN INVESTIGATIONS OF HOLOCENE HUMAN ADAPTATIONS TO CHANGING HYDROMORPHIC REGIMES IN THE TIEN SHAN PIEDMONT REGION, CENTRAL ASIA. FLUVIAL GEOCHRONOLOGIES HAVE BEEN RECONSTRUCTED OVER THE LAST 20,000 YEARS USING OPTICALLY STIMULATED LUMINESCENCE AND C-14 DATING, AND ARE COMPARED WITH HUMAN SETTLEMENT HISTORIES FROM THE ENEOLITHIC TO THE MEDIEVAL PERIOD. PHASES OF LATE PLEISTOCENE AND HOLOCENE RIVER AGGRADATION AT C. 17,400-6420, 4130 -2880 AND 910-500 CAL. BC AND BETWEEN THE MID-18TH AND EARLY 20TH CENTURIES WERE COEVAL WITH COOLER AND WETTER NEOGLACIAL EPISODES. ENTRENCHMENT AND FLOODPLAIN SOIL DEVELOPMENT (C. 2880-2490 CAL. BC AND CAL. AD 1300-1640) COINCIDED WITH WARMER AND DRIER CONDITIONS. PRIOR TO THE MODERN PERIOD, FLOODWATER FARMING IN THE TALGAR RIVER REACHED ITS HEIGHT IN THE LATE IRON AGE (400 CAL. BC CAL. AD 1) WITH MORE THAN 70 SETTLEMENT SITES AND 700 BURIAL MOUNDS. THIS PERIOD OF AGRICULTURAL EXPANSION CORRESPONDS TO A PHASE OF REDUCED FLOODING, RIVER STABILITY AND GLACIER RETREAT IN THE TIEN SHAN MOUNTAINS. LATE IRON AGE AGRICULTURISTS APPEAR TO HAVE BEEN OPPORTUNISTIC BY EXPLOITING A PHASE OF MODERATE FLOWS WITHIN AN ALLUVIAL FAN ENVIRONMENT, WHICH CONTAINED A SERIES OF PARTIALLY ENTRENCHED DISTRIBUTARY CHANNELS THAT COULD BE EASILY 'ENGINEERED' TO FACILITATE FLOODWATER FARMING. HOLOCENE CLIMATE CHANGE WAS THEREFORE NOT A PROXIMATE CAUSE FOR THE DEVELOPMENT AND DEMISE OF THIS RELATIVELY SHORT-LIVED (C. 200 YEARS) PERIOD OF IRON AGE FARMING. RIVER DYNAMICS IN THE TIEN SHAN PIEDMONT ARE, HOWEVER, STRONGLY COUPLED WITH REGIONAL HYDROCLIMATIC FLUCTUATIONS, AND THEY HAVE LIKELY ACTED LOCALLY AS BOTH 'PUSH' AND 'PULL' FACTORS FOR RIPARIAN AGRICULTURISTS. (C) 2015 ELSEVIER LTD. ALL RIGHTS RESERVED.

TIEN-SHAN; CLIMATE VARIABILITY; TIAN-SHAN; ARAL SEA; CIVILIZATION; CHRONOLOGY; KYRGYZSTAN; MOUNTAINS; GLACIERS; RIVERS

CENTRAL ASIA; TIEN SHAN PIEDMONT; FLOODWATER FARMING; IRON AGE; HOLOCENE CLIMATE CHANGE; ALLUVIAL FAN

QUATERNARY SCIENCE REVIEWS

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U.S. NSFNATIONAL SCIENCE FOUNDATION (NSF) [1122359, 1122398]

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2014

SOLVENT-FREE AEROBIC OXIDATION OF ALCOHOLS USING SUPPORTED GOLD PALLADIUM NANOALLOYS PREPARED BY A MODIFIED IMPREGNATION METHOD

THE SYNTHESIS OF STABLE, SUPPORTED, BIMETALLIC NANOALLOYS WITH CONTROLLED SIZE, MORPHOLOGY AND COMPOSITION IS OF GREAT PRACTICAL IMPORTANCE. COMPARED TO THEIR MONOMETALLIC ANALOGUES, SUCH MATERIALS EXHIBIT REMARKABLE ENHANCEMENT IN FUNCTIONAL PROPERTIES, WHICH CAN BE EXPLOITED IN VARIOUS FIELDS INCLUDING CATALYSIS. RECENTLY, WE HAVE REPORTED A SIMPLE EXCESS ANION MODIFICATION OF THE IMPREGNATION METHOD TO PREPARE SUPPORTED GOLD-PALLADIUM CATALYSTS WHICH GIVES VERY GOOD CONTROL OVER THE PARTICLE SIZES AND THE COMPOSITION WITHOUT USING ANY STABILIZER LIGANDS IN THE PREPARATION. HERE, WE REPORT THE RESULTS FROM A COMPARATIVE STUDY OF USING THIS MODIFIED IMPREGNATION CATALYST FOR THE SOLVENT-FREE AEROBIC OXIDATION OF ALCOHOLS IN TWO DIFFERENT REACTORS: A GLASS STIRRED REACTOR AND A MICRO PACKED BED REACTOR UNDER BATCH AND CONTINUOUS MODE RESPECTIVELY. THESE MODIFIED IMPREGNATION CATALYSTS ARE EXCEPTIONALLY ACTIVE AND MORE IMPORTANTLY, WHEN TESTED IN A MICRO PACKED BED REACTOR UNDER FLOW CONDITIONS, ARE OBSERVED TO BE STABLE FOR SEVERAL DAYS WITHOUT ANY SIGN OF DEACTIVATION IN CONTRAST TO THE SAME CATALYST PREPARED BY THE SOL IMMOBILIZATION METHOD IN THE PRESENCE OF STABILIZER LIGANDS WHICH SHOWED A 3-5% DECREASE IN CONVERSION OVER 10-12 H.

LIQUID-PHASE OXIDATION; AU-PD NANOPARTICLES; BENZYL ALCOHOL; CATALYTIC-ACTIVITY; BIMETALLIC CATALYSTS; SOL IMMOBILIZATION; INCIPIENT WETNESS; HYDROGEN-PEROXIDE; SIZE; DISPROPORTIONATION

NA

CATALYSIS SCIENCE & TECHNOLOGY

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EPSRCENGINEERING & PHYSICAL SCIENCES RESEARCH COUNCIL (EPSRC); UMM AL-QURA UNIVERSITY, SAUDI ARABIA; ENGINEERING AND PHYSICAL SCIENCES RESEARCH COUNCILENGINEERING & PHYSICAL SCIENCES RESEARCH COUNCIL (EPSRC) [EP/J017868/1, EP/J017833/1] FUNDING SOURCE: RESEARCHFISH

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2006

TWO-RUNG MODEL OF A LEFT-HANDED BETA-HELIX FOR PRIONS EXPLAINS SPECIES BARRIER AND STRAIN VARIATION IN TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHIES

IN THIS STUDY, A NEW BETA-HELICAL MODEL IS PROPOSED THAT EXPLAINS THE SPECIES BARRIER AND STRAIN VARIATION IN TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHIES. THE LEFT-HANDED BETA-HELIX SERVES AS A STRUCTURAL MODEL THAT CAN EXPLAIN THE SEEDED GROWTH CHARACTERISTICS OF BETA-SHEET STRUCTURE IN PRPSC FIBRILS. MOLECULAR DYNAMICS SIMULATIONS DEMONSTRATE THAT THE LEFT-HANDED BETA-HELIX IS STRUCTURALLY MORE STABLE THAN THE RIGHT-HANDED BETA-HELIX, WITH A HIGHER BETA-SHEET CONTENT DURING THE SIMULATION AND A BETTER DISTRIBUTED NETWORK OF INTER-STRAND BACKBONE-BACKBONE HYDROGEN BONDS BETWEEN PARALLEL BETA-STRANDS OF DIFFERENT RUNGS. MULTIPLE SEQUENCE ALIGNMENTS AND HOMOLOGY MODELLING OF PRION SEQUENCES WITH DIFFERENT RUNGS OF LEFT-HANDED BETA-HELICES ILLUSTRATE THAT THE PRP REGION WITH THE HIGHEST BETA-HELICAL PROPENSITY (RESIDUES 105-143) CAN FOLD IN JUST TWO RUNGS OF A LEFT-HANDED BETA-HELIX. EVEN IF NO OTHER FLANKING SEQUENCE PARTICIPATES IN THE BETA-HELIX, THE TWO RUNGS OF A BETA-HELIX CAN GIVE THE GROWING FIBRIL ENOUGH ELEVATION TO ACCOMMODATE THE REST OF THE PRP PROTEIN IN A TIGHT PACKING AT THE PERIPHERY OF A TRIMERIC BETA-HELIX. THE FOLDING OF BETA-HELICES IS DRIVEN BY BACKBONE-BACKBONE HYDROGEN BONDING AND STACKING OF SIDE-CHAINS IN ADJACENT RUNGS. THE SEQUENCE AND STRUCTURE OF THE LAST RUNG AT THE FIBRIL END WITH UNPROTECTED BETA-SHEET EDGES SELECTS THE SEQUENCE OF A COMPLEMENTARY RUNG AND DICTATES THE FOLDING OF THE NEW RUNG WITH OPTIMAL BACKBONE HYDROGEN BONDING AND SIDE-CHAIN STACKING. AN IMPORTANT SIDE-CHAIN STACK THAT FACILITATES THE BETA-HEHCAL FOLDING IS BETWEEN METHIONINE RESIDUES 109 AND 129, WHICH EXPLAINS THEIR IMPORTANCE IN THE SPECIES BARRIER OF PRIONS. BECAUSE THE PRP SEQUENCE IS NOT EVOLUTIONARILY OPTIMISED TO FOLD IN A BETA-HELIX, AND BECAUSE THE BETA-HELICAL FOLD SHOWS VERY LITTLE SEQUENCE PREFERENCE, ALTERNATIVE ALIGNMENTS ARE POSSIBLE THAT RESULT IN A DIFFERENT RUNG ABLE TO SELECT FOR AN ALTERNATIVE COMPLEMENTARY RUNG. A DIFFERENT TOP RUNG RESULTS IN A NEW STRAIN WITH DIFFERENT GROWTH CHARACTERISTICS. HENCE, IN THE PRESENT MODEL, SEQUENCE VARIATION AND ALTERNATIVE ALIGNMENTS CLARIFY THE BASIS OF THE SPECIES BARRIER AND STRAIN SPECIFICITY IN PRP-BASED DISEASES. (C) 2006 ELSEVIER LTD. ALL RIGHTS RESERVED.

MOLECULAR-DYNAMICS SIMULATIONS; PROTEASE-RESISTANT FORMS; CRYSTAL-STRUCTURE; SECONDARY STRUCTURE; SWISS-MODEL; AMYLOID FIBRILS; INCUBATION-TIME; N-TERMINUS; SCRAPIE; CONVERSION

BETA-HELIX; PRION; STRAIN; CJD; BSE

JOURNAL OF MOLECULAR BIOLOGY

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VALIDITY OF HOSPITAL DISCHARGE ICD CODES FOR IDENTIFYING PATIENTS WITH THROMBOCYTOPENIA

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PHARMACOEPIDEMIOLOGY AND DRUG SAFETY

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2014

TRANSIENT EARLY WHEEZE AND LUNG FUNCTION IN EARLY CHILDHOOD ASSOCIATED WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE GENES

BACKGROUND: IT HAS BEEN HYPOTHESIZED THAT A DISTURBED EARLY LUNG DEVELOPMENT UNDERLIES THE SUSCEPTIBILITY TO CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD). LITTLE IS KNOWN ABOUT WHETHER SUBJECTS GENETICALLY PREDISPOSED TO COPD SHOW THEIR FIRST SYMPTOMS OR REDUCED LUNG FUNCTION IN CHILDHOOD. OBJECTIVE: WE INVESTIGATED WHETHER REPLICATED GENES FOR COPD ASSOCIATE WITH TRANSIENT EARLY WHEEZE (TEW) AND LUNG FUNCTION LEVELS IN 6-TO 8-YEAR-OLD CHILDREN AND WHETHER CIGARETTE SMOKE EXPOSURE IN UTERO AND AFTER BIRTH (ENVIRONMENTAL TOBACCO SMOKE [ETS]) MODIFIES THESE EFFECTS. METHODS: THE ASSOCIATION OF COPD-RELATED GENOTYPES OF 20 SINGLE NUCLEOTIDE POLYMORPHISMS IN 15 GENES WITH TEW, FEV1, FORCED VITAL CAPACITY (FVC), AND FEV1/FVC RATIO WAS STUDIED IN THE PREVENTION AND INCIDENCE OF ASTHMA AND MITE ALLERGY (PIAMA) BIRTH COHORT (N = 1996) AND REPLICATED IN THE CHILD, PARENTS AND HEALTH: LIFESTYLE AND GENETIC CONSTITUTION (KOALA) AND AVON LONGITUDINAL STUDY OF PARENTS AND CHILDREN (ALSPAC) COHORTS. RESULTS: AGER SHOWED REPLICATED ASSOCIATION WITH FEV1/FVC RATIO. TNS1 ASSOCIATED WITHMORETEWINPIAMAAND LOWER FEV1 IN ALSPAC. TNS1 INTERACTED WITH ETS IN PIAMA, SHOWING LOWER FEV1 IN EXPOSED CHILDREN. HHIP RS1828591 INTERACTED WITH CIGARETTE SMOKE EXPOSURE IN UTERO IN PIAMA AND WITH ETS IN ALSPAC, WITH LOWER LUNG FUNCTION IN NONEXPOSED CHILDREN. SERPINE2, FAM13A, AND MMP12 ASSOCIATED WITH HIGHER FEV1 AND FVC, AND SERPINE2, HHIP, AND TGFB1 INTERACTED WITH CIGARETTE SMOKE EXPOSURE IN UTERO IN PIAMAONLY, SHOWING ADVERSE EFFECTS OF EXPOSURE ON FEV1 BEING LIMITED TO CHILDREN WITH GENOTYPES CONFERRING THE LOWEST RISK OF COPD. CONCLUSION: OUR FINDINGS INDICATE RELEVANT INVOLVEMENT OF AT LEAST 3 COPD GENES IN LUNG DEVELOPMENT AND LUNG GROWTH BY DEMONSTRATING ASSOCIATIONS POINTING TOWARD REDUCED AIRWAY CALIBER IN EARLY CHILDHOOD. FURTHERMORE, OUR RESULTS SUGGEST THAT COPD GENES ARE INVOLVED IN THE INFANT'S LUNG RESPONSE TO SMOKE EXPOSURE IN UTERO AND IN EARLY LIFE.

1ST 6 YEARS; KOALA BIRTH COHORT; SMOKE EXPOSURE; SERPINE2 GENE; ASTHMA; CHILDREN; RISK; LIFE; POLYMORPHISMS; INFANCY

CHRONIC OBSTRUCTIVE PULMONARY DISEASE; TRANSIENT EARLY WHEEZE; LUNG FUNCTION GROWTH; IN UTERO EXPOSURE

JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY

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ALLERGY; IMMUNOLOGY

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2015

POWERFUL, ROTATING DISK WINDS FROM STELLAR-MASS BLACK HOLES

WE PRESENT AN ANALYSIS OF IONIZED X-RAY DISK WINDS FOUND IN THE FE K BAND OF FOUR STELLAR-MASS BLACK HOLES OBSERVED WITH CHANDRA, INCLUDING 4U 1630-47, GRO J1655-40, H 1743-322, AND GRS 1915+105. HIGH-RESOLUTION PHOTOIONIZATION GRIDS WERE GENERATED IN ORDER TO MODEL THE DATA. THIRD-ORDER GRATINGS SPECTRA WERE USED TO RESOLVE COMPLEX ABSORPTION PROFILES INTO ATOMIC EFFECTS AND MULTIPLE VELOCITY COMPONENTS. THE FE XXV LINE IS FOUND TO BE SHAPED BY CONTRIBUTIONS FROM THE INTERCOMBINATION LINE (IN ABSORPTION), AND THE FE XXVI LINE IS DETECTED AS A SPIN-ORBIT DOUBLET. THE DATA REQUIRE 2-3 ABSORPTION ZONES, DEPENDING ON THE SOURCE. THE FASTEST COMPONENTS HAVE VELOCITIES APPROACHING OR EXCEEDING 0.01C, INCREASING MASS OUTFLOW RATES AND WIND KINETIC POWER BY ORDERS OF MAGNITUDE OVER PRIOR SINGLE-ZONE MODELS. THE FIRST-ORDER SPECTRA REQUIRE RE-EMISSION FROM THE WIND, BROADENED BY A DEGREE THAT IS LOOSELY CONSISTENT WITH KEPLERIAN ORBITAL VELOCITIES AT THE PHOTOIONIZATION RADIUS. THIS SUGGESTS THAT DISK WINDS ARE ROTATING WITH THE ORBITAL VELOCITY OF THE UNDERLYING DISK, AND PROVIDES A NEW MEANS OF ESTIMATING LAUNCHING RADII-CRUCIAL TO UNDERSTANDING WIND DRIVING MECHANISMS. SOME ASPECTS OF THE WIND VELOCITIES AND RADII CORRESPOND WELL TO THE BROAD-LINE REGION IN ACTIVE GALACTIC NUCLEI (AGNS), SUGGESTING A PHYSICAL CONNECTION. WE DISCUSS THESE RESULTS IN TERMS OF PREVALENT MODELS FOR DISK WIND PRODUCTION AND DISK ACCRETION ITSELF, AND IMPLICATIONS FOR MASSIVE BLACK HOLES IN AGNS.

X-RAY BINARIES; ACCRETION DISKS; ABSORPTION-LINES; CHANDRA HETGS; WARM ABSORBER; IRON; JET; SPECTROSCOPY; FEEDBACK; OUTFLOWS

ACCRETION, ACCRETION DISKS; BLACK HOLE PHYSICS; X-RAYS: BINARIES

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DETERMINANTS AND PROGNOSTIC SIGNIFICANCE OF COLLATERALS IN PATIENTS UNDERGOING CORONARY REVASCULARIZATION

THERE IS EVIDENCE THAT CORONARY COLLATERALS IMPROVE THE PROGNOSIS IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION (MI). HOWEVER, THERE IS LIMITED CLINICAL INFORMATION ON THE PROTECTIVE ROLE OF COLLATERALS IN PATIENTS WITH STABLE CORONARY ARTERY DISEASE. THIS INFORMATION MAY HELP RISK STRATIFICATION AND THE DEVELOPMENT OF NOVEL THERAPIES, SUCH AS ARTERIOGENESIS AND ANGIOGENESIS. THE RELATION BETWEEN COLLATERALS AND CARDIAC DEATH OR MI AT I YEAR AFTER CORONARY REVASCULARIZATION WAS STUDIED IN 561 PATIENTS WHO WERE ENROLLED IN A RANDOMIZED STUDY THAT COMPARED STENT IMPLANTATION WITH BYPASS GRAFTING. COLLATERALS WERE ASSESSED ON AN ANGIOGRAM USING RENTROP'S CLASSIFICATION AND CONSIDERED PRESENT WITH A RENTROP GRADE > 1. UNADJUSTED AND ADJUSTED ODDS RATIOS FOR CARDIAC DEATH OR MI AT 1 YEAR WERE CALCULATED USING UNIVAIRIATE AND MULTIVARIATE REGRESSION ANALYSES. IN ADDITION, DETERMINANTS OF COLLATERALS WERE ASSESSED USING UNIVARIATE AND MULTIVARIATE ANALYSES. COLLATERALS WERE PRESENT IN 176 PATIENTS (31%). THE ADJUSTED ODDS RATIO OF CARDIAC DEATH OR INFARCTION WAS 0.18 (95% CONFIDENCE INTERVAL 0.04 TO 0.78) IN THE PRESENCE OF COLLATERALS. INDEPENDENT DETERMINANTS OF COLLATERALS WERE AGE (ODDS RATIO 0.97, 95% CONFIDENCE INTERVAL 0.95 TO 0.99), MULTIVESSEL DISEASE (ODDS RATIO 1.60, 95% CONFIDENCE INTERVAL 1.02 TO 2.51), IMPAIRED VENTRICULAR FUNCTION (ODDS RATIO 1.85, 95% CONFIDENCE INTERVAL 1.04 TO 3.29), TYPE C LESION (ODDS RATIO 3.72, 95% CONFIDENCE INTERVAL 2.33 TO 5.95). AND STENOSIS SEVERITY > 90% (ODDS RATIO 9.08, 95% CONFIDENCE INTERVAL 4.65 TO 17.73). IN CONCLUSION, IN PATIENTS WITH A LOW RISK PROFILE, THE PRESENCE OF COLLATERALS PROTECTS AGAINST CARDIAC DEATH AND MI AT 1 YEAR AFTER CORONARY REVASCULARIZATION. VARIABLES THAT REFLECT THE DURATION AND SEVERITY OF THE ATHEROSCLEROTIC AND ISCHEMIC BURDEN DETERMINE THEIR PRESENCE. (C) 2006 ELSEVIER INC. ALL RIGHTS RESERVED.

ACUTE MYOCARDIAL-INFARCTION; ARTERY-DISEASE; BYPASS-SURGERY; OFF-PUMP; DIABETES-MELLITUS; HEART-DISEASE; ON-PUMP; CIRCULATION; ARTERIOGENESIS; ANGIOPLASTY

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INTRODUCTION TO BIOLOGICAL SOLID-STATE NMR

NA

ANGLE-SPINNING NMR; NUCLEAR-MAGNETIC-RESONANCE; MAGIC-ANGLE; ROTATING SOLIDS; MAS-NMR; CORRELATION SPECTROSCOPY; CROSS-POLARIZATION; PHASE MODULATION; PROTEIN; C-13

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ADVANCES IN BIOLOGICAL SOLID-STATE NMR: PROTEINS AND MEMBRANE-ACTIVE PEPTIDES

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BIOCHEMICAL RESEARCH METHODS; BIOCHEMISTRY & MOLECULAR BIOLOGY; PHYSICS, ATOMIC, MOLECULAR & CHEMICAL

BIOCHEMISTRY & MOLECULAR BIOLOGY; PHYSICS

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RESPIRATORY SYNCYTIAL VIRUS TRIALS AND BEYOND

NA

PALIVIZUMAB PROPHYLAXIS; PRETERM INFANTS; MOTAVIZUMAB; CHILDREN

NA

LANCET INFECTIOUS DISEASES

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INFECTIOUS DISEASES

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INDUCED SYSTEMIC RESISTANCE BY BENEFICIAL MICROBES

BENEFICIAL MICROBES IN THE MICROBIOME OF PLANT ROOTS IMPROVE PLANT HEALTH. INDUCED SYSTEMIC RESISTANCE (ISR) EMERGED AS AN IMPORTANT MECHANISM BY WHICH SELECTED PLANT GROWTH-PROMOTING BACTERIA AND FUNGI IN THE RHIZOSPHERE PRIME THE WHOLE PLANT BODY FOR ENHANCED DEFENSE AGAINST A BROAD RANGE OF PATHOGENS AND INSECT HERBIVORES. A WIDE VARIETY OF ROOT-ASSOCIATED MUTUALISTS, INCLUDING PSEUDOMONAS, BACILLUS, TRICHODERMA, AND MYCORRHIZA SPECIES SENSITIZE THE PLANT IMMUNE SYSTEM FOR ENHANCED DEFENSE WITHOUT DIRECTLY ACTIVATING COSTLY DEFENSES. THIS REVIEW FOCUSES ON MOLECULAR PROCESSES AT THE INTERFACE BETWEEN PLANT ROOTS AND ISR-ELICITING MUTUALISTS, AND ON THE PROGRESS IN OUR UNDERSTANDING OF ISR SIGNALING AND SYSTEMIC DEFENSE PRIMING. THE CENTRAL ROLE OF THE ROOT-SPECIFIC TRANSCRIPTION FACTOR MYB72 IN THE ONSET OF ISR AND THE ROLE OF PHYTOHORMONES AND DEFENSE REGULATORY PROTEINS IN THE EXPRESSION OF ISR IN ABOVEGROUND PLANT PARTS ARE HIGHLIGHTED. FINALLY, THE ECOLOGICAL FUNCTION OF ISR-INDUCING MICROBES IN THE ROOT MICROBIOME IS DISCUSSED.

GROWTH-PROMOTING RHIZOBACTERIA; MYCORRHIZA-INDUCED RESISTANCE; FLUORESCENT PSEUDOMONAS SPP.; DEPENDENT DEFENSE PATHWAYS; SYRINGAE PV. TOMATO; ARABIDOPSIS-THALIANA; SALICYLIC-ACID; PLANT-GROWTH; ACQUIRED-RESISTANCE; JASMONIC ACID

DEFENSE PRIMING; PLANT IMMUNITY; PLANT GROWTH-PROMOTING MICROBES; RHIZOSPHERE MICROBIOME; ROOT SIGNALING

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2015

RAPID REACTIVATION OF CYANOBACTERIAL PHOTOSYNTHESIS AND MIGRATION UPON REHYDRATION OF DESICCATED MARINE MICROBIAL MATS

DESICCATED CYANOBACTERIAL MATS ARE THE DOMINANT BIOLOGICAL FEATURE IN THE EARTH'S ARID ZONES. WHILE THE RESPONSE OF DESICCATED CYANOBACTERIA TO REHYDRATION IS WELL-DOCUMENTED FOR TERRESTRIAL SYSTEMS, INFORMATION ABOUT THE RESPONSE IN MARINE SYSTEMS IS LACKING. WE USED HIGH TEMPORAL RESOLUTION HYPERSPECTRAL IMAGING, LIQUID CHROMATOGRAPHY, PULSE-AMPLITUDE FLUOROMETRY, OXYGEN MICROSENSORS, AND CONFOCAL LASER MICROSCOPY TO STUDY THIS RESPONSE IN A DESICCATED MICROBIAL MAT FROM EXMOUTH GULF, AUSTRALIA. DURING THE INITIAL 15 MIN AFTER REHYDRATION CHLOROPHYLL A CONCENTRATIONS INCREASED 2-5 FOLD AND CYANOBACTERIAL PHOTOSYNTHESIS WAS RE-ESTABLISHED. ALTHOUGH THE MECHANISM BEHIND THIS RAPID INCREASE OF CHLOROPHYLL A REMAINS UNKNOWN, WE HYPOTHESIZE THAT IT INVOLVES RESYNTHESIS FROM A PRECURSOR STORED IN DESICCATED CYANOBACTERIA. THE SUBSEQUENT PHASE (15 MIN-48 H) INVOLVED MIGRATION OF THE REACTIVATED CYANOBACTERIA TOWARD THE MAT SURFACE, WHICH LED, TOGETHER WITH A GRADUAL INCREASE IN CHLOROPHYLL A, TO A FURTHER INCREASE IN PHOTOSYNTHESIS. WE CONCLUDE THAT THE RESPONSE INVOLVING AN INCREASE IN CHLOROPHYLL A AND RECOVERY OF PHOTOSYNTHETIC ACTIVITY WITHIN MINUTES AFTER REHYDRATION IS COMMON FOR CYANOBACTERIA FROM DESICCATED MATS OF BOTH TERRESTRIAL AND MARINE ORIGIN. HOWEVER, THE RESPONSE OF UPWARD MIGRATION AND ITS TRIGGERING FACTOR APPEAR TO BE MAT-SPECIFIC AND LIKELY LINKED TO OTHER FACTORS.

CHLOROPHYLL SYNTHESIS; DESERT CRUSTS; GROWTH; PRODUCTIVITY; COMMUNITIES; RECOVERY

CYANOBACTERIA; DESICCATION TOLERANCE; EXTREME ENVIRONMENT; REHYDRATION; PHOTOSYNTHESIS; REACTIVATION

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MARIE CURIE INITIAL TRAINING NETWORK ""SENSENET"" [237868]; MAX PLANCK SOCIETY OF GERMANYMAX PLANCK SOCIETY

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2015

LIMINAL SPACE IN PROTRACTED EXILE: THE MEANING OF PLACE IN CONGOLESE REFUGEES' NARRATIVES OF HOME AND BELONGING IN KAMPALA

THIS ARTICLE AIMS TO ADVANCE THE DISCUSSION ON THE RELATIONSHIP BETWEEN PEOPLE AND PLACES IN THE CONTEXT OF PROTRACTED EXILE. IT ANALYSES NARRATIVES OF HOME AND BELONGING OF PROTRACTED CONGOLESE REFUGEES IN KAMPALA AND ARGUES FOR A DYNAMIC AND CHANGING NOTION OF HOME THAT TAKES PLACE IN PROTRACTED EXILE. CONDITIONS IN EXILE LEAD TO A PROFOUND FEELING OF BEING OUT OF PLACE AND FUEL AN ANTAGONISTIC SENSE OF HOME. THIS DOES NOT MEAN, HOWEVER, THAT ALL REFUGEES SHARE A STRONG ATTACHMENT TO THEIR HOMELAND, OR THAT THEIR DESIRE TO RETURN IS A NATURAL GIVEN. INDEED, THIS ARTICLE ARGUES THAT THE HOME OF CONGOLESE REFUGEES IS NOT ONLY LEFT BEHIND IN ANOTHER PLACE, IT HAS ALSO BEEN LEFT BEHIND IN ANOTHER TIME AND IS THEREFORE EXPERIENCED AS A PREVIOUS AND IRRETRIEVABLE HOME. TRIGGERED BY REMITTANCES AND INFORMATION, REFUGEES' SEARCH FOR HOME IS TRANSLATED INTO A DESIRE TO BE RESETTLED, AND THUS THE IDEA OF HOME BECOMES STRONGER. THIS IS ALSO REFLECTED IN REFUGEES' NOTION OF HOME AS A SPIRITUAL PLACE, TRANSCENDING BOTH TIME AND SPACE.

IDENTITY

CONGOLESE REFUGEES; PROTRACTED EXILE; NOTION OF HOME; SENSE OF BELONGING; MEANING OF PLACE

JOURNAL OF REFUGEE STUDIES

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DEMOGRAPHY; ETHNIC STUDIES

DEMOGRAPHY; ETHNIC STUDIES

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2006

AMBIVALENT ATTITUDES AND HEALTH-RELATED BEHAVIORS: APPRAISING MULTIPLE PATHS OF INFLUENCE

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PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH; PSYCHOLOGY, MULTIDISCIPLINARY

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2014

EX-ANTE LIFE CYCLE ASSESSMENT OF POLYMER NANOCOMPOSITES USING ORGANO-MODIFIED LAYERED DOUBLE HYDROXIDES FOR POTENTIAL APPLICATION IN AGRICULTURAL FILMS

BIODEGRADABLE AGRICULTURAL FILMS MADE OF POLY(BUTYLENE ADIPATE-CO-TEREPHTHALATE) (PBAT) ARE INTERESTING ALTERNATIVES TO THE MOST COMMONLY USED LOW-DENSITY POLYETHYLENE (LDPE) FILMS. PHOTODEGRADATION OF BOTH TYPES OF POLYMERS CAN BE PREVENTED BY THE ADDITION OF UV STABILIZERS. TO PREVENT LEACHING OF THE ADDITIVES FROM THE FILMS, THE STABILIZERS CAN BE INTERCALATED IN LAYERED DOUBLE HYDROXIDES (LDH). WHEN LDHS ARE EXFOLIATED IN THE POLYMER A NANOCOMPOSITE IS FORMED WITH IMPROVED MATERIAL PROPERTIES. AN EX-ANTE CRADLE-TO-GRAVE LIFE CYCLE ASSESSMENT (LCA) IS CONDUCTED ON THE APPLICATION OF NANOCLAYS IN AGRICULTURAL MULCHING FILMS. THE PBAT/LDH NANOCOMPOSITE IS COMPARED WITH PBAT AND LDPE, BOTH OF WHICH HAD BEEN UV-STABILIZED WITH THE CONVENTIONALLY USED COMPOUND IRGANOX 1010. BEING KEY INGREDIENTS OF THE NANOCOMPOSITES WE PREPARE AN EX-ANTE CRADLE-TO-FACTORY GATE LCA FOR DIFFERENT NANOCLAY COMPOSITIONS CONTAINING SURFACTANTS AND THE NON-TOXIC UV STABILIZER P-HYDROXYCINNAMIC ACID INTERCALATED IN LDH SHEETS. AMONG THE NANOCLAYS, THE LOWEST ENVIRONMENTAL IMPACT IS ACHIEVED BY LDHS BASED ON MAGNESIUM OXIDE/HYDROXIDE AND ALUMINUM OXIDE/HYDROXIDE, WITH THE SURFACTANT STEARATE AS THE INTERCALATED ANION. OUR COMPARATIVE ANALYSIS OF MULCHING FILMS SHOWS THAT THE LOWEST NON-RENEWABLE ENERGYSE AND GREENHOUSE GAS EMISSIONS ARE OBTAINED BY LDPE FILMS, WHICH ARE RECYCLED AND INCINERATED WITH ENERGY RECOVERY AFTER THE SECOND LIFE CYCLE. HOWEVER, RECYCLING AND ENERGY RECOVERY ARE NOT ALWAYS APPLIED, WHICH MAKES THE BIODEGRADABLE PBAT AN INTERESTING ALTERNATIVE. FURTHER STUDY ON THE UV STABILITY, TENSILE STRENGTH AND BIO-BASED FEEDSTOCK FOR PBAT INDICATES THAT PBAT CONTAINING LDH AND P-HYDROXYCINNAMIC ACID CAN BE AN ENVIRONMENTALLY FRIENDLY ALTERNATIVE TO LDPE AGRICULTURAL FILMS CONTAINING THE UV STABILIZER IRGANOX 1010.

CINNAMIC ACID; BIODEGRADABLE POLYMERS; PLASTIC WASTES; ENERGY; PRODUCTS

NA

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CHEMISTRY, MULTIDISCIPLINARY; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY

CHEMISTRY; SCIENCE & TECHNOLOGY - OTHER TOPICS

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NA

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FRANCE#NETHERLANDS#FRANCE#SWITZERLAND#SWITZE

**FALSE NEGATIVES (3)**

WOS:000366638900172

2014

INTER-SYSTEM TIME LAG DUE TO CLOUDS IN AN URBAN PV ENSEMBLE

THIS PAPER PRESENTS A SHORT TERM (< 1 HOUR) IN SITU GLOBAL HORIZONTAL IRRADIANCE (GHI) FORECASTING METHOD WITHOUT THE USE OF EXTERNAL WEATHER DATA. THIS FORECASTING METHOD IS BASED ON THE RELATIVE TEMPORAL SHIFT (TIME LAG) OF MEASURED GHI, OR GHI-FLUCTUATIONS TIME SERIES OF PAIRS OF PHOTOVOLTAIC (PV) SYSTEMS THAT ARE INFLUENCED BY THE SAME CLOUD(SYSTEM) SEQUENTIALLY. ADDITIONALLY, IN COMBINATION WITH MEASURED WEATHER DATA AN ESTIMATION OF CLOUD HEIGHT CAN BE MADE. THE CLOUD HEIGHT CAN PROVE USEFUL WHEN WHOLE SKY CLOUD IMAGES ARE INTERPRETED FOR FORECASTING PURPOSES.

NA

SOLAR PHOTOVOLTAICS; PV OUTPUT; VARIABILITY; TIME LAG; FORECASTING

WOS:000242184800005

2006

OPTIMISING WASTE TREATMENT SYSTEMS - PART A: METHODOLOGY AND TECHNOLOGICAL DATA FOR OPTIMISING ENERGY PRODUCTION AND ECONOMIC PERFORMANCE

THE TREATMENT AND UTILISATION OF BIOMASS RESIDUES AND WASTE FOR ENERGY AND RECYCLING CAN CONTRIBUTE SIGNIFICANTLY TO GREENHOUSE GAS EMISSION REDUCTION. THEREFORE, A WASTE TREATMENT STRUCTURE SHOULD BE DESIGNED FOR AN EFFICIENT SAVING OF FOSSIL PRIMARY ENERGY IN TERMS OF MAXIMAL PRIMARY ENERGY SAVINGS OR MINIMAL COSTS PER UNIT OF PRIMARY ENERGY SAVINGS. HOWEVER, THIS IS A COMPLEX TASK, GIVEN THE LARGE NUMBER OF TECHNOLOGIES, RECYCLING OPTIONS AND THEIR LOGISTIC CONSEQUENCES, THAT NECESSITATE AN INTEGRATED ANALYSIS. ALSO, ON LONGER TERM VARIOUS NEW AND IMPROVED TECHNOLOGIES BECOME AVAILABLE WHICH CAN AFFECT PERFORMANCES FOR OPTIONS FROM AN ECONOMIC AND/OR ENERGY POINT OF VIEW. FOR THAT REASON, AN OPTIMISATION TOOL, THAT OPTIMISES A BIOMASS AND WASTE TREATMENT SYSTEM FOR A GIVEN AMOUNT OF BIOMASS AND WASTE, IS DEVELOPED IN THIS STUDY. THIS OPTIMAL BIOMASS AND WASTE TREATMENT SYSTEM IS COMPOSED OF SEVERAL TREATMENT INSTALLATIONS, THAT ARE CHARACTERISED BY SCALE, LOCATION AND KIND OF TECHNOLOGY. IMPORTANT ASPECTS THAT ARE TAKEN INTO ACCOUNT IN THE ANALYSIS ARE HEAT DISTRIBUTION, BIOMASS AND WASTE TRANSPORT AND ECONOMIES OF SCALE. A BROAD VARIETY OF TECHNOLOGIES FOR MATERIAL RECYCLING, CONVERSION OF BIOMASS AND/OR WASTE TO HEAT, ELECTRICITY OR TRANSPORTATION FUEL ARE INCLUDED IN THE OPTIMISATION TOOL. PERFORMANCE DATA OF THESE TECHNOLOGIES ARE BASED ON AN EXTENSIVE REVIEW. EXAMPLES OF INCLUDED TECHNOLOGIES COMPRISE: INTEGRATED GASIFICATION WITH COMBINED CYCLE, WASTE INCINERATION, PYROLYSIS, DIGESTION, CO-FIRING IN FOSSIL POWER PLANTS, BIOMASS INCINERATION, HYDRO-THERMAL UPGRADING, PAPER RECYCLING AND CHIPBOARD PRODUCTION. A COMPARISON OF THE DIFFERENT TECHNOLOGIES IN RELATION TO SCALE SHOWS THAT PRIMARY ENERGY SAVINGS AND COSTS PER UNIT OF PRIMARY ENERGY SAVINGS DIVERGE SIGNIFICANTLY. IN GENERAL, THE OPTIMISATION TOOL DEVELOPED HERE IS SUITABLE FOR ANALYSES OF OPTIMAL BIOMASS AND WASTE TREATMENT STRUCTURES IN DIFFERENT REGIONS WITH REGARD TO PRIMARY ENERGY SAVINGS AND THEIR COSTS. BY MEANS OF SCENARIO ANALYSIS, ROBUST OPTIMAL SOLUTIONS IN TERMS OF PRIMARY ENERGY SAVINGS AND THEIR COSTS CAN BE IDENTIFIED AND THE INFLUENCE OF IMPORTANT PARAMETERS CAN BE ANALYSED. A CASE STUDY OF THE DUTCH BIOMASS AND WASTE TREATMENT SYSTEMS HAS BEEN CARRIED OUT WITH THE OPTIMISATION TOOL AND IS PRESENTED IN PART TWO OF THIS ARTICLE. (C) 2006 ELSEVIER B.V. ALL RIGHTS RESERVED.

POWER; HEAT

SOLID WASTE; RECYCLING; PRIMARY ENERGY SAVINGS; OPTIMISATION; WASTE TREATMENT; BIOMASS

WOS:000372635100010

2014

ASSESSING TRANSFORMATION PATHWAYS

NA

GREENHOUSE-GAS EMISSIONS; CLIMATE-CHANGE MITIGATION; SOLAR-RADIATION MANAGEMENT; RESEARCH-AND-DEVELOPMENT; ENDOGENOUS TECHNOLOGICAL-CHANGE; DIRECTED TECHNICAL CHANGE; PUBLIC-HEALTH BENEFITS; WORLD WATER-RESOURCES; HOUSEHOLD ENERGY USE; CARBON-CYCLE MODELS