

ECCR 2009 – POSTER PRESENTATIONS

POSTERS PA: Clinical I - Micro and Macrovascular Studies

- PA.01 How does wave intensity change with heart rate? Insight from carotid study during pacing
A Al-Hussaini, AJ Baksi, N Hadjiloizou, JE Davies, C Manisty, A Kyriacou, RA Foale, T Tillin, KH Parker, DP Francis, J Mayet, AD Hughes (London)
- PA.02 Echo Particle Image Velocimetry (Echo PIV): A novel ultrasound-based method for the in vivo measurement of wall shear stress in human carotid arteries
PE Gates, F Zhang, WD Strain, OE Gosling, L Mazzaro, AJ Barker, J Fulford, AC Shore, NG Bellenger, C Lanning, R Shandas (Exeter, Boulder, Denver, Aurora)
- PA.03 Evidence of a central respiratory oscillator observed in the cutaneous microcirculation
CE Thorn, SJ Matcher, AC Shore (Exeter, Sheffield)
- PA.04 Quantitative imaging of renal medullary perfusion with PET/CT in healthy human subjects
M Damkjaer, M Vafaei, ML Moeller, H Petersen, PF Hoiland-Carlsen, P Bie (Odense, Aarhus, Frederiksberg)
- PA.05 Pulse-wave velocity in retinal arteries of healthy volunteers
IM Lanzl, W Vilser, KE Kotliar (Munich, Ilmenau)
- PA.06 Capillary rarefaction in normotensive Asian individuals
V Nama, S Sajjad, IT Manyonda, TFT Antonios (London)
- PA.07 Is the microstructure of retinal arterial blood column along the vessel altered in systemic hypertension?
KE Kotliar, E Nagel, W Vilser, SF Seidova, IM Lanzl (Munich, Rudolstadt, Ilmenau)
- PA.08 Software-induced miscalculation as an additional source of variability in ambulatory blood pressure measurement
M Frank, S Peyrard, G Bobrie, M Azizi (Paris)
- PA.09 Characterisation of systemic vascular phenotype using low-flow mediated vasoconstriction in patients with undergoing coronary intervention
J Spiro, G Ghimire, M Mason, A Mitchell, C Ilsley, A Donald, M Dalby, R Kharbanda (London)
- PA.10 Microcirculation in patients with Huntington's disease
Z Melik, K Cankar, J Kobal (Ljubljana)
- PA.11 Effects of acute mental stress on peripheral vascular activity in young healthy adults with and without family predisposition of hypertension
N Potocnik, K Cankar, Z Melik, V Starc (Ljubljana)
- PA.12 Changes in arterial function due to treatment vs arterial stiffness at base line as predictor of cardiovascular events in women with Coronary Artery Disease
IA Orlova, I Barinova, E Yarovaya, F Ageev (Moscow)

POSTERS PB: Clinical II – HEART AND BIOMARKERS

- PB.01 Measuring the chemotaxis response of peripheral mononuclear cells in humans: validation and investigation in percutaneous coronary intervention
J Spiro, J Digby, G Ghimire, M Mason, A Mitchell, C Ilsley, R Choudhury, M Dalby, R Kharbanda (London, Oxford)
- PB.02 Remote ischaemic preconditioning prevents systemic platelet activation associated with ischaemia-reperfusion injury in man
CM Pedersen, N Cruden, C Lau, S Vun, RK Kharbanda, DE Newby (Aarhus, Edinburgh, Oxford)
- PB.03 Beta-Catenin pathway expression in human myocardium is increased by a remote ischaemic preconditioning stimulus
H Contractor, H Ashrafian, I Rahman, K Juul-Dam, A Redington, CJ Mascaro, RS Bonser, RK Kharbanda (Oxford, Birmingham, Aarhus, Toronto)

- PB.04 Adenosine receptor inhibition abolishes remote ischaemic preconditioning in humans
H Contractor, J Diesch, C Cunnington, K Juul-Dam, M Lazdan, P Leeson, RK Kharbanda (Oxford, Aarhus)
- PB.05 Local ischemic preconditioning protects against endothelial dysfunction in a novel ex-vivo model of human vascular ischemia-reperfusion injury
K Juul-Dam, H Contractor, C Cunnington, T Van Assche, P Leeson, K Channon, HE Botker, MR Schmidt, RK Kharbanda (Aarhus, Oxford)
- PB.06 Adverse outcomes in patients with microalbuminuria undergoing elective cardiac surgery
MM Mikkelsen, NH Andersen, TD Christensen, TK Hansen, SP Johnsen (Aarhus)
- PB.07 Abdominal aortic aneurysm: searching for plasma biomarkers by MS/MS proteomic analysis
AE Acosta Martin, A Panchaud, M Chwastyniak, P Amouyel, D Goodlett, F Pinet (Lille, Seattle)
- PB.08 Endothelial cell dysfunction in patients with peripheral arterial disease
L Castiglioni, L Schembri, L Maroni, RC Maio, E Rasini, M Legnaro, S Debernardi, P Castelli, T Congiu, D Quacci, L Guasti, F Marino, M Cosentino, A Venco (Varese)
- PB.09 Diagnostic value of a new ELISA for the detection of plasma free metanephrines
T Lenz, J Zorner, C Kirchmaier, D Pillitteri, K Badenhoop, C Bartel, H Geiger, L Roggenbuck, L Tuschy, MK Walz, L Salewski (Ludwigshafen, Wiesbaden, Frankfurt am Main, Kiel, Erfurt, Essen, Hamburg)
- PB.10 Beneficial effects of metolazone in resistant hypertension
S Soni, M Michail, N Chitalia, TFT Antonios (London)
- PB.11 Reproducibility of masked hypertension in healthy volunteers
T Gregorio, L Amar, S Peyrard, **G Bobrie**, M Azizi (Paris)
- PB.12 Polymorphism Thr92 Ala of deiodinase 2 gene and heart remodeling in patients with thyrotoxicosis of Graves disease
AY Babenko, MA Bogdanova, VI Larionova, AA Kostareva, DA Popkova (St. Petersburg)

POSTERS PC: RECEPTORS AND SIGNALLING

- PC.01 Vasoactive effects of cystamine
ME Pedersen, A Eftekhari, MJ Mulvany (Aarhus)
- PC.02 DMSO-lipid soluble cigarette smoking particles upregulate contractile endothelin type B and thromboxane A2 receptors of rat middle cerebral arteries
H Sandhu, CB Xu, L Edvinsson (Glostrup, Lund)
- PC.03 Intracellular calcium levels and contraction induced by 5-CT and S6c in rat after cerebral ischemia
R Waldsee, H Ahnstedt, L Edvinsson (Lund)
- PC.04 Raf inhibition prevents activation of pro-inflammatory mediators in cerebral arteries after subarachnoid hemorrhage
A Maddahi, S Ansar, L Edvinsson (Lund)
- PC.05 Interaction of cytokines and growth factors on contractile endothelin receptors in rat cerebral arteries
H Ahnstedt, E Stenman, M Henriksson, L Edvinsson (Lund)
- PC.06 Role of calcium-calmodulin dependent protein kinase in cell survival of rat cerebral arteries
S Eftekhari, R Waldsee, L Edvinsson (Lund)
- PC.07 Molecular mechanisms underlying the neuroprotective action of ceftriaxone; the role of astrocyte-neuronal axis
P Namsolleck, S Walter, Th Unger, C Thöne-Reineke, UM Steckelings (Berlin)
- PC.08 The role of oxidative stress in mediating cocaine-induced MAPK activation and cardiac myocyte injuries
L Fan, D Sawbridge, A Bailey, **JM Li** (Guildford)

- PC.09 Attenuation of norepinephrine-induced vascular contraction by acute inhibition of cyclooxygenase: the role of Ca²⁺-activated K⁺ and Cl⁻ channels
S Liskova, J Kunes, J Zicha (Prague)
- PC.10 The influence of nifedipine on the contribution of alpha-1- and alpha-2-adrenergic vasoconstriction to pressor effects of exogenous norepinephrine in WKY and SHR rats
M Behuliak, M Pinterova, J Kunes, J Zicha (Bratislava, Prague)
- PC.11 Identification and characterization of E339-3D6, the first nonpeptidic apelin receptor agonist
R Alvear Perez, X Iturrioz, N de Mota, C Franchet, F Guillier, M Le Jouan, H Chabane, R Gerbier, D Bonnet, JL GALZI, M Hibert, C Llorens Cortes (Paris, Illkirch Graffenstaden)
- PC.12 Reduced alpha 2 adrenoreceptor effects in mice lacking the angiotensin II receptor AT1A
M Todiras, F Qadri, V Saul, N Alenina, M Bader (Berlin)

POSTERS PD: METABOLIC

- PD.01 Effect of methylglyoxal on expression of endothelial nitric oxide synthase (eNOS) and inducible nitric oxide synthase (iNOS) in rat tail artery and human umbilical endothelial cells: implications for vascular dysfunction in diabetes?
FM Chew, S Wijetunge, AD Hughes (London)
- PD.02 Pericardial fat, metabolic and cardiovascular risk in men of South Asian and European origins
N Whitehead, T Tillin, A Wright, N Chaturvedi, a Hughes (London)
- PD.03 Non-diabetic chronic kidney disease influences retinal microvasculature
KE Kotliar, S Schwarz, A Schmidt-Trucksass, K Burkhardt, J Lutz, U Heemann, I Lanzl, M Baumann (Munich, Basel, Weissenburg)
- PD.04 Up-regulation of NADPH oxidase by advanced glycation end products in human endothelial cells can be on the basis of vascular diabetic complications
BK Rodiño-Janeiro, R Ucieda-Somoza, JR González-Juanatey, E Álvarez (Santiago de Compostela)
- PD.05 Plasma levels of the novel vasodilatory gas Hydrogen Sulfide (H₂S) are associated with adiposity
M Whiteman, JL Whatmore, KM Gooding, CI Ball, D Mawson, K Skinner, JE Tooke, A Shore (Exeter)
- PD.06 Acute hyperglycemia diminishes the endothelium dependent vasodilatation through a protein kinase C dependent mechanism in rat aorta
H Lenasi, I Fleming (Ljubljana, Frankfurt am Main)
- PD.07 TNF α -mediated inflammatory response in adipocytes is attenuated by the direct activation of angiotensin II AT₂- receptors
S Wardat, U Kintscher, UM Steckelings, A Foryst-Ludwig (Berlin)
- PD.08 Glucose is not the main determinant of endothelial dysfunction but contributes to endothelial dysfunction in a reperfusion model in vitro
TJ Guterbaum, T Braunstein, A Fossum, C Torp-Pedersen, **H Domínguez** (Hellerup, Copenhagen)
- PD.09 Both normotensive and hypertensive obese patients show structural alterations of subcutaneous resistance-sized arteries
C De Ciuceis, D Rizzoni, E Porteri, E La Boria, GEM Boari, N Rizzardi, C Platto, E Di Betta, F Mittempergher, B Salerni, R Tosini, A Pilu, M Castellano, C Agabiti Rosei, E Agabiti Rosei (Brescia)
- PD.10 Inhibition of Rho kinase reduces blood pressure in hypertensive type 2 diabetic Goto-Kakizaki rats
G Lin, H Soliman, **KM MacLeod** (Vancouver)
- PD.11 The effect of diclofenac on acetylcholine induced vasodilatation in diabetes type I
K Cankar, Z Melik (Ljubljana)
- PD.12 The effect of diabetes on β 3-adrenoceptor-mediated cardiac responses
G Kayki, E Arioglu, I Ozakca, T Ozcelikay, M Altan (Ankara)

POSTERS PE: VASCULAR BIOLOGY

- PE.01 Heme oxygenase-1 induction restores high-blood-flow-dependent remodeling and endothelial function in resistance arteries of old rats
ML Freidja, E Vessières, N Clere, A-L Guihot, B Toutain, L Loufrani, S Faure, D Henrion (Angers)
- PE.02 TGF- β increases inward remodeling of cannulated small mesenteric arteries
MJC Schoorl, ENTP Bakker, E VanBavel (Amsterdam)
- PE.03 Regional differences in vascular function from mice fed a long-term high-fat diet
M Gil-Ortega, AI de las Heras, R Guzmán-Ruiz, V Cano, M Ruiz-Gayo, SM Arribas, MS Fernández-Alfonso, B Somoza (Madrid)
- PE.04 siRNA-induced in vivo downregulation of L-type calcium channels in rat small mesenteric arteries
K Moller, C Aalkjaer, VV Matchkov (Aarhus)
- PE.05 CD4+CD25+ regulatory T cells population in atherosclerosis: pharmacological modulation
L Maroni, L Schembri, L Castiglioni, RC Maio, A De Leo, S Contini, V Macchi, G Gaudio, L Guasti, F Marino, M Cosentino, A Venco (Varese)
- PE.06 Hypoxia enhances the relaxing influence of mice adipose tissue
N Maenhaut, J Van de Voorde (Ghent)
- PE.07 In vitro and in vivo studies on the importance of the soluble guanylyl cyclase alpha 1 subunit in penile erection
K Decaluwé, S Nimmegeers, R Thoonen, E Buys, P Brouckaert, J Van de Voorde (Ghent, Boston)
- PE.08 In vivo pro-angiogenic effects exhibited by microparticles carrying sonic hedgehog
R Soleti, T Benameur, C Porro, R Andriantsitohaina, MC Martinez (Angers, Foggia)
- PE.09 Innate immunity affects the cardiovascular phenotype
R Schneider, D Sollinger, S Liskova, J Zicha, U Heemann, M Baumann (München, Prague)
- PE.10 Transcriptional regulation of the VEGF-receptor 1 (Flt1)
JS Langen, Y Ciribilli, V Andreotti, D Menendez, MA Resnick, A Inga, G Schonfelder (Berlin, Genoa, North Carolina)
- PE.11 Compensatory increase of endothelial nitric oxide production in mice fed a long-term high fat diet
M Gil-Ortega, AI de las Heras, R Guzmán-Ruiz, V Cano, SM Arribas, M Ruiz-Gayo, B Somoza, MS Fernández-Alfonso (Madrid)
- PE.12 Effects of adenosine on endotoxin-induced vascular dysfunction in rat tail arteries
M Manickavasagar, BP Ramakers, P Pickkers, S Wijetunge, AD Hughes (Nijmegen and London)

POSTERS PF: RAAS AND THE KIDNEY

- PF.01 The induction of albuminuria in SHR by NO-inhibition is aggravated in a SHR-derived consomic strain carrying chromosome 6 from the Munich Wistar Frömter rat
A Schulz, S Schuetten, R Vetter, SC Steireif, B Bublath, R Kreutz (Berlin)
- PF.02 The functional importance of dicistronic transcription of a bicarbonate transporter and a kinase in the mouse kidney
HKM Rosenberg, S Mogensen, E-M Fuchtbauer, C Aalkjaer (Aarhus)
- PF.03 Apelin receptor mRNA expression in the rat kidney: evidence for a role of apelin in renal hemodynamic functions
A Hus-Citharel, N Bouby, A Frugière, L Bodineau, JM Gasc, C Llorens-Cortes (Paris)
- PF.04 Purification and characterization of proteins of the (pro)renin receptor ((P)RR) signal transduction cascade
D Zaade, R Maul, J Schmitz, S Klare, A Herrmann, JC Hahne, S Kirsch, T Unger, H Funke-Kaiser (Berlin)

- PF.05 Role of the perivascular adipose renin-angiotensin system on vascular function
I Valladolid-Acebes, M Gil-Ortega, B Somoza, M Ruiz-Gayo, MS Fernández-Alfonso (Madrid)
- PF.06 Blockade of angiotensin II type 2 receptor delays early tumorigenesis by inhibiting tumor cell proliferation and angiogenesis
N Clere, I Corre, S Faure, AL Guihot, E Vessières, M Chalopin, A Morel, O Coqueret, L Hein, Y Delneste, F Paris, D Henrion (Angers, Nantes, Freiburg)
- PF.07 Nitric Oxide alterations in kinin B1 receptor knockout mice
RA Loiola, F Reis, AO Guimaraes, AM Hilzendege, EM Kawamoto, C Scavone, DP Abdallah, M Bader, JB Pesquero, **L Fernandes** (Sao Paulo, Berlin)
- PF.08 Evidence for a less efficient A1 receptor-mediated inhibition of noradrenaline release in mesenteric arteries from Spontaneously Hypertensive Rats (SHR)
C Rocha-Pereira, P Fresco, SM Arribas, MC González, MV Conde, J Gonçalves, C Diniz (Porto)
- PF.09 RAAS stimulation in an early stage of life causes sustained hypertension in rats
B Heijnen, J Debets, H van Essen, A Bast, B Janssen, H Struijker Boudier (Maastricht)
- PF.10 Juvenile treatment aggravates antihypertensive and antihypertrophic treatment effects in adult SHHF
M Baumann, J Chang, D Sollinger, M Roos, J Lutz, U Heemann (München)
- PG.01 Long-term exposure to high fat diet promotes glycogen but not lipid accumulation in heart
R Guzmán-Ruiz, N Gómez-Hurtado, C Delgado, C González-Martin, M Gil-Ortega, B Somoza, MS Fernández-Alfonso, M Ruiz-Gayo (Madrid)

POSTERS PG: CARDIAC - EXPERIMENTAL

- PG.02 bFGF and VEGF inhibit ECM production in porcine cardiac fibroblasts after ischemia and reperfusion
J Pietsch, C Ulbrich, R von Bauer, A Leder, D Grimm (Berlin, Aarhus)
- PG.03 In vitro simulation of spiral waves in cardiomyocyte networks using multi-electrode array technology
S Jacquir, G Laurent, D Vandroux, S Binczak, JM Bilbault, **P Athias** (Dijon)
- PG.04 Myocardial apoptosis in an ischemic-reperfusion porcine model, and how it is influenced by occlusion time and preconditioning
RH Poulsen, L Waehrens, L Falborg, CW Heegaard, JT Rasmussen, M Rehling (Aarhus)
- PG.05 Exploration of mechanisms underlying cardiac infarction aggravation induced by intermittent hypoxia
J Tonini, A Ramond, JL Samuel, D Godin-Ribuot, P Lévy, **M Joyeux-Faure** (Grenoble, Paris)
- PG.06 microRNA regulation in cardiac fibroblast differentiation
H Brønnum Jensen, M Schneider, DD Andersen, SP Sheikh (Odense)
- PG.07 Study of post-translational modifications of contractile proteins in left ventricular remodeling
E Dubois, C Cieniewski-Bernard, P Mulder, H Drobecq, C Thuillez, P Amouyel, V Richard, F Pinet (Lille, Rouen)
- PG.08 Melatonin prevents the development of fibrosis but not hypertrophy in the left ventricle of L-NAME hypertensive rats
L Paulis, O Pechanova, J Zicha, K Krajcirovicova, A Barta, V Pelouch, M Adamcova, F Simko (Berlin, Bratislava, Prague, Hradec Kralove)
- PG.09 Cardiac and vascular remodeling induced by long-term blockade of NO synthesis in hamsters
M Dumitrescu, G Costache, D Popov, E Dragan (Bucharest)
- PG.10 Peripheral arterial adenosine infusion during coronary ischaemia reduces myocardial infarction
H Contractor, R Haarup-Lie, N Stottrup, K Juul-Dam, A Redington, H Botker, M Schmidt, R Kharbanda (Oxford, Aarhus, Toronto)

POSTERS PH: VASCULAR FUNCTION

- PH.01 CGRP promotes dissociation of ET-1/ETA receptor complexes and terminates long-lasting ET-1-induced contraction in resistance arteries
M Meens, M Compeer, M van Zandvoort, T Hackeng, J De Mey (Maastricht)
- PH.02 Effects of combretastatin-A4-phosphate, a novel vascular disrupting agent, on endothelium-dependent vasodilatation
J Su, BE Laursen, Y Eskildsen-Helmond, M Horsman, U Simonsen (Aarhus)
- PH.03 K⁺ channels and release of nitric oxide
E Stankevicius, C Krøigaard, E Boedtkjer, AD Hughes, MJ Mulvany, U Simonsen (Aarhus, London)
- PH.04 Activation of the putative estrogen receptor GPR30 attenuates endothelial cell DNA synthesis
A Holm, B Olde, F Leeb-Lundberg, BO Nilsson (Lund)
- PH.05 Influence of beta-adrenergic stimulation by isoprenaline on blood pressure and its changes following acute NO synthase blockade: synergic roles of cyclic nucleotides in vasodilation
M Pinterova, M Behuliak, J Kunes, J Zicha (Prague, Bratislava)
- PH.06 Major preventive but not therapeutic effects of high potassium intake on salt hypertension in young Dahl rats
J Zicha, Z Dobesova, M Pinterova, J Kunes (Prague)
- PH.07 Estrogens have a major role in the remodeling of rat resistance arteries in response to a chronic increase of blood flow
K Tarhouni, A L Guihot, D Henrion (Angers)
- PH.08 Strain-dependent susceptibility for hypertension in mice resides in the natural killer gene complex
Z Taherzadeh, E VanBavel, J deVos, HL Matlung, G vanMontfrans, LM Brewster, L Seghers, PHA Quax,
ENTP Bakker (Amsterdam, Leiden)
- PH.09 A potential link between the innate immune system and hypertension
R Schneider, K Rusai, D Sollinger, U Heemann, M Baumann (München)
- PH.10 Statins attenuate vasoconstriction via modulation of the RhoA/Rho kinase pathway, endothelial nitric oxide synthase and myosin phosphatase
SD Copley, JF Beltrame, DP Wilson (Adelaide, Woodville)