

## Scientific Program

### Oral presentations: Ballroom

#### Saturday, June 9, 2012 :

- 15h00 – 18h00 Registration  
 19h00 The SLB Session  
 Chair: William M. Nauseef (Coralville, IA, USA)  
 Brief overview of the SLB  
 Introductory Remarks: Maria Fernandes, Patrice E. Poubelle
- 19h15 *Keynote Lecture :*  
 Andrea Cerutti, New York, NY, USA: Regulation of antibody diversification and production by neutrophils
- 20h00 Welcoming Reception and Light Dinner, Ballroom Foyer

#### Sunday, June 10 :

- 8h00 Continental breakfast, Ballroom Foyer

### Session I

#### **Neutrophil Functions and Beyond**

Chairs: Sergio Grinstein, Paul H. Naccache, Sylvain Bourgoin

- 8h30 – 8h55 Niels Borregaard, Copenhagen, Denmark: Neutrophil granule subsets. Their content and significance
- 8h55 – 9h20 Leo Koenderman, Utrecht, The Netherlands: Differential functions of neutrophil phenotypes
- 9h20 – 9h45 Sonja Vermeren, Cambridge, UK: ARAP3 regulates neutrophils
- 9h45 – 10h10 Sergio Catz, La Jolla, CA: Molecular mechanisms regulating vesicle dynamics and secretion in granulocytes
- 10h10 – 10h45 Break (beverage service, Ballroom Foyer)
- 10h45 – 11h10 Arturo Zychlinsky, Berlin, Germany: NETs – From infection to autoimmunity
- 11h10 – 11h35 Sophie Dupré-Crochet, Orsay, France: Phosphatidylserine regulates NADPH oxidase activity by mediating p47 and Rac2 translocation during phagocytosis
- 11h35 – 12h00 Michael Glogauer, Toronto, ON: Reactive oxygen species regulate PIP3 and the chemotactic compass through oxidation of PIP3K and PTEN

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12h00 – 14h00 Complimentary Lunch

## Session II

### Receptors, Signalling and Soluble Mediators

Chairs: Marco A. Cassatella, William S. Powell, Patrick McDonald

- 14h00 – 14h25 Hans-Uwe Simon, Bern, Switzerland: Apoptosis and other forms of neutrophil cell death
- 14h25 – 14h50 Véronique Witko-Sarsat, Paris, France: Role of the proliferating cell nuclear antigen scaffolding in the control of neutrophil survival
- 14h50 – 15h15 Patrick P. McDonald, Sherbrooke, QC, Canada: Signaling pathways controlling cytokine production by human neutrophils
- 15h15 – 15h45 Ralph Kettritz, Berlin, Germany: Neutrophil activation by anti-neutrophil cytoplasmic autoantibodies (ANCA)
- 15h40 – 16h15 Break (beverage service, Ballroom Foyer)
- 16h15 – 16h40 Pierre Bruhns, Paris, France: Neutrophils and IgG: novel actors in allergic shock
- 16h40 – 17h30 **The Trainees' Session – Part 1:** Sponsored by CIHR. Four oral presentations selected from volunteered abstracts (12 min + 3 min discussion)
- Mathieu-Benoit Voisin, London, UK: Pericytes support neutrophil sub-endothelial cell crawling and breaching of venular walls *in vivo*
  - Paula Nunes, Geneva, Switzerland: STIM1 juxtaposes ER membranes to neutrophil phagosomes generating local Ca<sup>2+</sup> microdomains that promote phagocytosis
  - Janesh Pillay, Utrecht, The Netherlands: Neutrophils can inhibit T-cell responses and limit influenza induced pathology
  - Mallary C. Greenlee-Wacker, Iowa City, IA, USA: Neutrophils fed *Staphylococcus aureus* bind to macrophages, inhibit uptake by macrophages and diminish the subsequent innate immune response

## Monday, June 11 :

8h00 Continental breakfast, Ballroom Foyer

## Session III

### Cell-cell Interactions

Chairs: Jean-Michel Dayer, Maria Fernandes, Patrice E. Poubelle

- 8h30 – 8h55 Marco A. Cassatella, Verona, Italy: Neutrophils at the interface between innate and adaptative immunity
- 8h55 – 9h20 Paul Kubes, Calgary, AB, Canada: How neutrophils migrate to sites of infection and sterile injury

- 9h20 – 9h45 Yoseph A. Mekori, Tel Aviv, Israel: Mast cell activation by heterotypic adhesion to T cells: from close physical contact to distant effects
- 9h45 – 10h10 Lennart Lindbom, Stockholm, Sweden: Neutrophil-induced derangement of the endothelial barrier in acute inflammation
- 10h10 – 10h45 Break
- 10h45 – 11h10 Fabienne Tacchini-Cottier, Epalinges, Switzerland: Crosstalks between neutrophils and dendritic cells during infection with the protozoan parasite *Leishmania*
- 11h10 – 12h00 **The Trainees' Session – Part 2:** Sponsored by CIHR. Four oral presentations selected from volunteered abstract (12 min + 3 min discussion)
- Giulia Germena, Torino, Italy: The Rac-GAP ArhGAP15 regulates neutrophil bone marrow egression
  - Kristof Van Avondt, Utrecht, The Netherlands: Control of phagocyte activation: signal inhibitory receptor on leukocytes-1 (SIRL-1) regulates the oxidative burst in phagocytic cells
  - Sanjivan Gautam, Freiburg, Germany: ER-stress, BIM-dependent apoptosis and bone marrow retention contribute to neutropenia due to glucose-6-phosphatase 3 (G6PC) deficiency in a mouse model of neutrophil differentiation
  - David N. Douda, Toronto, ON, Canada: Surfactant protein D suppresses the formation of neutrophil extracellular traps
- 12h15 – 13h15 Complimentary Lunch, Place Montcalm Room

## Session IV

### **Poster Session: Place Montcalm Room**

Chairs: François Marceau, Denis Girard

- 13h00 – 16h00 Poster presentation. Authors are requested to be present during one half of the Poster Session: for odd numbers, 13h00-14h30; for even numbers, 14h30-16h00.
- 16h00 – 16h15 Break (beverage service in the Ballroom Foyer)

## Mini-Workshop: Ballroom

### **Update on Methodologic Approaches to Understanding Neutrophil Biology**

Chairs: Kenneth McLeish, Maria Fernandes

- 16h15 – 16h40 Stephen A. Renshaw, Sheffield, UK: Zebrafish as a model for studying neutrophil biology.
- 17h05 – 17h30 Sergio Grinstein, Toronto, ON, Canada: Actin cytoskeleton reorganization by tyrosine kinase increases Fc- $\gamma$  receptor mobility

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- 17h30–17h55 Kenneth McLeish, Louisville, KY, USA: Can proteomics answer fundamental questions about neutrophil biology?  
17h55-18h20 Michael P. Gantier, Clayton, VIC, Australia: MicroRNAs: Small tools to elucidate big questions in neutrophil biology

**Cocktails and Awards for the Trainees' Session: Jean-Paul Lemieux Room**

- 18h30 Poster Awards and Cocktail.  
19h30 Optional Pub Dinner: Pub D'Orsay, 65 Rue De Buade, Québec.

Tuesday, June 12 :

- 8h00 Continental breakfast, Ballroom Foyer

**Session V**

**Neutrophils in the Clinic**

Chairs: Sara M. Rankin, Patrice E. Poubelle, Claude Perreault

- 8h30 – 8h55 Nancy Berliner, Boston, MA, USA: Approach to the patient with neutropenia  
8h55 – 9h20 Sara Rankin, London, UK: Molecular mechanisms regulating neutrophil clearance in the bone marrow  
9h20 – 9h45 A. McGarry Houghton, Seattle, WA, USA: Intracellular functions of neutrophil elastase in cancer  
9h45 – 10h10 Jens Altrichter, Rostock, Germany: Extracorporeal cell therapy of septic shock patients with donor granulocytes – Results of a clinical trial  
10h10 – 10h45 Break  
1045 – 11h00 Mary C. Dinauer, St. Louis, MO, USA: Function and regulation of neutrophil oxidant production: Insights from chronic granulomatous disease  
11h10 – 11h35 Peter A. Nigrovic, Boston, MA, USA: Modulating neutrophil migration to the joint  
11h35 – 12h00 Michel Gilliet, Lausanne, Switzerland: Netting neutrophils in the pathogenesis of systemic autoimmunity  
12h05 – 12h10 Concluding Remarks

## Poster Session:

Posters are on display in the Place Montcalm Room, from Sunday 7h30 to Monday 18h00.

Authors are requested to be present during one half of the Poster Session: for odd numbers, 13h00-14h30; for even numbers, 14h30-16h00.

- P1 Jones, C.N., Dimisko, L., Moore, M., Fagan, S. Irimia, D. Microfluidic assay to quantify neutrophil directional migration speed in burn patients.
- P2 Nadkarni, S., Dalli, J., Hollywood, J., Mason, J.C., Dasgupta, B., Perretti, M. Modulation of elements of the annexin-A1 pathway in giant cell arteritis by glucocorticoids: a longitudinal study that reveals an uncontrolled neutrophil component.
- P3 Novak, T., Fortune, F., Hagi-Pavli, E. Regulation of neutrophil elastase in the oral mucosa.
- P4 Chiewchengchol, D., Beresford, M.W., Deekajondat, T., Hirankarn, N., Edwards, S.W. Defective neutrophil phagocytosis in juvenile systemic lupus erythematosus.
- P5 van Egmond, M. Neutrophil Fc $\alpha$ RI aggravates intestinal inflammation in colitis.
- P6 Lakschevitz, F., Glogauer, M. Gene expression profile of neutrophils – From vasculature to the site of inflammation.
- P7 Hänsch, G.M., Mayer, B., Maurer, S., Gaida, M.M. Polymorphonuclear neutrophils link infection with bone erosion in patients with osteomyelitis.
- P8 Altrichter, J., Koch, S., Doss, F., Doss, S., Mitzner, S.R. Extended storage of granulocyte apheresates for clinical transfusions.
- P9 de Kleijn, S., Langereis, J., Leentjens, J., Kox, M., Koenderman, L., Ferwerda, G., Pickkers, P., Hermans, P. Interferon  $\gamma$  drives neutrophils to suppress T cells.
- P10 de Kleijn, S., Kox, M., Sama, I., Pillay, J., Huijnen, M., Hoeven, J. van der, Ferwerda, G., Hermans, P., Pickkers, P. Transcriptome kinetics of circulating neutrophils during human experimental endotoxemia.
- P11 Aboodi, G.M., Lakschevitz, F., Goldberg, M.B., Glogauer, M. Oral neutrophils from patients with chronic periodontitis present with an intracellular antioxidant deficiency.
- P12 Sundqvist, M., Wekell, P., Osla, V., Bylund, J., Christenson, K., Sävman, K., Fasth, A., Berg, S., Brown, K.L., Karlsson, A. Neutrophils show increased intracellular ROS production during febrile episodes of the pediatric autoinflammatory syndrome PFAPA.
- P13 Uriarte, S.M., Fernandez-Botran, R., Rodriguez-Hernandez, L., Le, J., Camp, J.V., Rane, M.J., Peyrani, P., Wiemken, T., Uppatla, S., Cavallazzi, R., Arnold, F., Bordon, J., Ramirez,

- J.A. Neutrophil activation and cytokine response predict the outcome of patients with community-acquired pneumonia.
- P14 Kuhns, D.B., Malech, H.L., Gallin, J.I., Holland, S.M. et al. Mutations in actin-interacting protein 1: a novel genetic disease with cytoskeletal anomalies, neutrophil dysfunction, and recurrent infections.
- P15 Brandau, S., Trellakis, S., Bruderek, K., Lang, S., Dumitru, C. Neutrophil granulocytes (PMN) as mediators of tumor progression in head and neck cancer.
- P16 Brandau, S., Trellakis, S., Bruderek, K., Lang, S. Immunophenotyping and expansion of granulocytic myeloid-derived suppressor cells in head and neck cancer.
- P17 Galdiero, M.R., Grizzi, F., Laghi, L., Garlanda, C., Mantovani, A., Jaillon, S. Predictive clinical outcome of peritumoral neutrophils in patients with colorectal cancer.
- P18 Guglietta, S., Chiavelli, A., Zagato, E., Rescigno, M. Role of neutrophils in intestinal tumorigenesis.
- P19 Hilvering, B., Luijk, B., ten Hove, W., Koenderman, L. Identification of neutrophilic asthma by unbiased cluster analysis based on staining of activated FcγRII (CD32) on granulocytes.
- P20 Dyugovskaya, L., Polyakov, A., Lavie, P., Lavie, L. Decreased neutrophil apoptosis in intermittent hypoxia in vitro and in vivo.
- P21 Rajarathnam, K., Sawant, K., Kolli, D., Garofalo, R. Choreography of chemokine-mediated neutrophil recruitment in health and disease – Insights from animal models.
- P22 Klein, A., Ferreira, R.G., Matsui, T.C., Pereira-Silva, P.E.M., Menezes, G.B., Godin, A.M., Coelho, M.M. Nicotinamide inhibits in vivo neutrophil migration in intravital studies and in experimental pleurisy in mice.
- P23 Marques, P.E., Amaral, S.S., Pires, D.A., Nogueira, L.L., Oliveira, A.G., Teixeira, M.M., Menezes, G.B. Neutrophils promote additional hepatocyte damage through CXCR2 and FPR1 activation during drug-induced acute liver failure.
- P24 Nunes-Silva, A., Bernardes, P.T.T., Rezende, B.M., Menezes, G.B., Gomes, E.C., Teixeira, M.M., Pinho, V. Neutrophil recruitment to the skeletal muscle after treadmill exercise to fatigue is associated to production of ROS.
- P25 Burgon, J., Robertson, A.L., Hurlstone, A., Wang, X., Ingham, P.W., Whyte, M.K.B., Renshaw, S.A. Serum and glucocorticoid regulated kinase 1 (SGK1) regulates neutrophil clearance during inflammation resolution.
- P26 Li, J.L.Y., Tay, F.W., Ng, L.G. In vivo multiphoton microscopy investigations of the role of neutrophil dynamics in the progression of immune complex-mediated inflammation.

- P27 Dal-Secco, D., Wong, C.H.Y., Jenne, C.N., Kubes, P. Role of neutrophil in the post acute phase of sterile injury in the liver.
- P28 Slaba, I., McDonald, B., Kubes, P. Platelet role in sterile inflammation.
- P29 Levy, R., Burgazliev, O., Elgazar-Carmon, V., Hadad, N., Rudich, A. Neutrophils infiltration of intra-abdominal fat is necessary for short-term high fat diet induced hepatic insulin resistance.
- P30 Pelletier, M., Bulua, A.C., Myerowitz-Vanderhoek, S., Kastner, D.L., Siegel, R.M. Characterization of the inflammatory processes involved in the familial autoinflammatory disease TRAPS (TNFR-associated periodic syndrome).
- P31 Bastien, D., De Rivero-Vaccari, J.P., Keane, R., Lacroix, S. Involvement of the IL-1 system in neutrophil and proinflammatory monocyte recruitment and functional recovery after spinal cord injury.
- P32 Paré, A., Cloutier, N., Boilard, E., Lacroix, S. In vivo imaging of neutrophils in inflamed tissues using two-photon microscopy.
- P33 Lévesque, S.A., Paré, A., Lessard, M., Lacroix, S. Absence of IL-1 $\beta$  alters fate of neutrophils and delays experimental autoimmune encephalomyelitis (EAE).
- P34 Kim, J., Aguilar-Valles, A., Cui, K., Jung, S., Luheshi, G.N. Systemic LPS induces IL-1  $\beta$  expressing neutrophil recruitment into the brain.
- P35 Wang, J., Nigrovic, P.A. Modulating neutrophil recruitment to the joint.
- P36 Suga, M., Hamamoto, M., Yamazaki, S., Nakatani, T. Neutrophil anesthesia – New strategy for the protection of surgery-associated lung injury.
- P37 Richard, J.-F., Roy, M., Tremblay, P., Dumas, A., Vallières, L. CXCL1 can be regulated by interleukin-6 and promotes granulocyte adhesion to brain capillaries during bacterial toxin exposure and encephalomyelitis.
- P38 Allaey, I., Chakravarti, A., Poubelle, P.E. Pathological bone resorption during chronic inflammatory arthritis: Role of neutrophil interactions with osteoblasts and osteoclasts.
- P39 Gymnino, I., Allaey, I., Rusu, D., Poubelle, P.E. Inflammatory neutrophils express RANK in K/BxN serum transfer model of arthritis.
- P40 Moreland, J.G., Whitmore, L.C. NOX2 protects against the development of inflammatory lung disease and mortality following systemic inflammatory insults.
- P41 Amaral, S.S., Marques, P.E., Pires, D.A., Nogueira, L.L., Teixeira, M.M., Menezes, G.B. Chemokines and formyl-peptides collaborate in neutrophil-mediated hepatocyte damage during acetaminophen overdose.

- P42 Castanheira, F.V.S., Sônego, F., Kanashiro, A., Czaikoski, P.G., Cunha, T.M., Alves-Filho, J.C., Cunha, F.Q. CCR5 expression on neutrophils plays a protective role during experimental sepsis.
- P43 Rane, M.J., Jin, S., Merchant, M.L., Ritzenthaler, J.D., McLeish, K.R., Roman, J., Klein, J.B. Baclofen, a GABA<sub>B</sub> receptor agonist, inhibits immune complex deposition induced acute lung injury by blockade of thrombospondin-1 release in bronchoalveolar lavage fluids in rats.
- P44 Paclet, M.H., Baillet, A., Hograindleur, M.A., El Benna, J., Grichine, A., Berthier, S., Morel, F. 6-Phosphofructo-2-kinase: A new modulator of neutrophil NADPH oxidase activity.
- P45 Nüsse, O., Tlili, A., Erard, M., Dupré-Crochet, S. Control of p67phox translocation to the phagosome in correlation with phagosomal ROS production.
- P46 Kumar, S., Xu, J., Zheng, Y., Filippi, M.-D. Wiscott Aldrich syndrome protein (WASp) regulates Cdc42 mediated neutrophil polarity via lipid raft, CD11b and microtubule reorganization.
- P47 Demaurex, N., El Chemaly, A. HV1 proton channels sustain ROS production inside neutrophil phagosomes and prevent their alkalinisation.
- P48 Gallais, Y., Turbica, I., Gleizes, A., Drouaz, N., Gorges, R., Tharinger, H., Nicolas, V., Pallardy, M., Chollet-Martin, S. Neutrophil-derived ectosomes modulate dendritic cell maturation.
- P49 Naegelen, I., Plançon, S., Muller, A., Kaoma, T., Nicot, N., Vallar, L., Tschirhart, E.J., Bréchar, S. Analysis of lipopolysaccharide-mediated degranulation and cytokine secretion in neutrophils.
- P50 Rollet-Labelle, E., Vaillancourt, M., Marois, L., Newkirk, M.M., Poubelle, P.E., Naccache, P.H. Activation of circulating neutrophils via their Fcγ receptors: Possible involvement of rheumatoid factors in rheumatoid arthritis-associated vascular damage.
- P51 Chouinard, F.C., Davis, L., Gilbert, C., Rollet-Labelle, E., Bourgoin, S.G. A role for AGAP2/PIKE-A in Fcγ receptor-mediated phagocytosis in neutrophils.
- P52 Paget, B.W., Haigh, B.J., Harper, J.L. Bovine cathelicidin peptides induce differential effects on neutrophil activity in a sequence and structure dependent manner.
- P53 Wright, H.L., Thomas, H.B., Moots, R.J., Edwards, S.W. Discovering cytokine-specific gene expression profiles in inflammatory neutrophils using whole transcriptome sequencing.
- P54 Thomas, H.B., Wright, H.L., Moots, R.J., Edwards, S.W. Developing a pipeline for whole transcriptome sequencing of inflammatory neutrophils.

- P55 Marois, L., Gagné, V., Levesque, J.-M., Galarneau, H., Tessier, P., Fernandes, M. J. G. Regulation of human neutrophil activation by Myeloid inhibitory C-type Lectin-like.
- P56 Roberts, K.J., Moots, R.J., Edwards, S.W. Inhibition of NAMPT decreases the ability of human neutrophils to generate reactive oxidants but does not impair bacterial killing.
- P57 Simard, F., McDonald, P.P. Uncoupling of the MEK/ERK signaling module in human neutrophils.
- P58 Mayer, T.Z., Fortin, C.F., McDonald, P.P. Post-transcriptional control of human neutrophil responses by BY MNK1.
- P59 Dalli, J., Serhan, C.N. Human neutrophils and microparticles regulate the biosynthesis of lipoxins, resolvins, protectins and maresins by macrophages.
- P60 Bratton, D.L., Frasch, S.C., Nicks, M., Holland, S., Fernandez-Boyanapalli, R.F. PPAR agonism restores efferocytosis of neutrophils (N) in chronic granulomatous disease (CGD) by enhancing oxidant production and "eat me" signaling.
- P61 Frasch, S.C., Fernandez-Boyanapalli, R.F., Nicks, M., Bratton, D.L. Oxidant-modified lysophosphatidylserine (lysoPS) on recruited neutrophils (N) signals via G2A for "early" clearance by macrophages (M) in vivo: Implications for chronic granulomatous disease (CGD).
- P62 Steiger, S., Harper, J.L. TGF $\beta$ 1-mediated self-regulation of neutrophil respiratory burst during the resolution in acute inflammation.
- P63 Patel, K.K., Poon, I.K., Hoogenraad, N.J., Hulett, M.D. Histidine-rich glycoprotein is processed by neutrophil elastase and regulates neutrophil function.
- P64 Simard, J.-C., Antoine, F., Tessier, P.A., Girard, D. Proinflammatory functions of S100A8 and S100A9.
- P65 Gabelloni, M.L., Sabbione, F., Jancic, C.C., Geffner, J.R., Trevani, A.S. NADPH oxidase-derived reactive oxygen species are involved in human neutrophil IL-1 $\beta$  secretion but not in inflammasome activation.
- P66 Balachandran, Y., Knaus, S., Singh, B. Toll-like receptor 10 expression in human lung and neutrophils.
- P67 Duchez, A.-C., Boudreau, L., Levesque, T., Brisson, A., Boilard, E. Secreted phospholipase A2 group IIA enhances the internalization of platelet microparticles by neutrophils.
- P68 Ham, H.-Y., Hong, C.-W., Kim, Y.-J., Jang, Y.-H., Park, J.-B., Song, D.-K. Lysophosphatidylcholine-induced translocation of azurophil granules via RhoA activation and F-actin polymerization in human neutrophils.

- P69 Chouinard, F., Larose, M.-C., Guan, X., Poirier, S., Bouchard, L., Hébert-Ouellet, Y., Provost, V., Flamand, L., Grandvaux, N., Flamand, N. 2-Arachidonoyl-glycerol (2-AG) and arachidonic acid (AA) stimulate neutrophils to release antimicrobial effectors.
- P70 Jean, S., Boudreau, L.H., Turcotte, C., Larose, M.-C., Chouinard, F., Bouchard, L., Provost, V., Flamand, N. Prostaglandin E<sub>2</sub>-glyceryl ester inhibits human neutrophil functions.
- P71 Lefebvre, J.S., Turcotte, C., Kukulski, F., Provost, V., Sévigny, J., Flamand, N. Impact of ATP and purinoreceptors on leukotriene B<sub>4</sub> biosynthesis by human neutrophils.
- P72 Uriarte, S.M., Tandon, S., Creed, T.M., Le, J., Ward, R.A., McLeish, K.R. Both neutrophil granule exocytosis and PIN1 activation are necessary for TNF $\alpha$ -induced priming.
- P73 Gagné, V., Marois, L., Lévesque, J.-M., Fernandes, M.J.G. The myeloid inhibitory C-type lectin-like receptor negatively regulates monosodium urate crystal-induced responses in neutrophils.
- P74 Sévigny, J., Bahrami, F., Yebdri, F.B., Hajmirbaba, E., Lecka, J., Martín-Satué, M., Lévesque, S.A., Kukulski, F. The ectonucleotidase NTPDase1 controls IL-8 production by human neutrophils.
- P75 Carlo, T., Kalwa, H., Levy, B.D. Lipoxins regulate neutrophil responses by regulation of polyisoprenyl diphosphatase 1 activity.
- P76 Hurtado-Nedelec, M., Fay, M., Gougerot-Pocidallo, M.-A., El-Benna, J. The NOD2 agonist MDP primes fMLF-stimulated NADPH oxidase activation in human neutrophils.
- P77 Reichner, J., Heflin, K., O'Brien, X.M. Differential regulation of neutrophil mechanosensing.
- P78 Jog, N.R., Madaio, M.P., Caricchio, R. Regulation of neutrophil function by poly (ADP-ribose) polymerase-1.
- P79 Stafford, T., Girard, D. Biological activities of in vitro-aged human neutrophils.
- P80 Fulop, T., Lesur, O., Dupuis, G., Larbi, A., Baehl, C.S., Le Page, A., Fortin, C. Functional and signal transduction changes in neutrophils under GM-CSF stimulation with aging.
- P81 Geering, B., Gurzeler, U., Federzoni, E., Kaufmann, T., Simon, H.-U. Peculiarities of cell death mechanisms in neutrophils: PI3Ks mediate TNF- $\alpha$ -induced neutrophil apoptosis.
- P82 O'Donnell, J.A., Nowell, C.J., Roberts, A.W., Croker, B.A. Regulation of FAS-induced apoptosis in neutrophils.
- P83 Filep, J.G., El Kebir, D. Outside-in signaling through the beta-2 integrin Mac-1 regulates neutrophil apoptosis and the resolution of acute lung inflammation.

- P84 Lam, C., Chiewchengchol, D., Roberts, K.J., Wright, H.L., Thomas, H.B., Moots, R.J., Edwards, S.W. Down regulation of death receptor signalling in neutrophils following TNF stimulation.
- P85 Pujary, U.R., Hampton, M., Winterbourn, C., Vissers, M. Hypoxia extends neutrophil survival but does not necessarily retain cell function.
- P86 Baumann, M., Benarafa, C. Cathepsin G and serpinB1 regulate neutrophil survival in the bone marrow.
- P87 Vorobjeva, N.V. Effects of N-acetylcysteine on human neutrophil activation in the in vitro study.
- P88 Takeuchi, M., Miyagawa, M., Hirono, Y., Sakura, M., Tanahashi, Y., Takakuwa, H., Otsuki, K., Pinkerton, K.E. Chemotactic activity for neutrophils by hot water extract from *Agaricus blazei* Murill.
- P89 Bouriche, H., Kharnouf, N., Dahamna, S., Senator, A. Modulation of neutrophil degranulation and chemotaxis by *Capparis spinosa* leaf extracts.
- P90 Bouriche, H., Boudoukha, C., Senator, A. Regulation of neutrophil elastase release by polyphenolic extract from *Cleome arabica* leaves.
- P91 Antoine, F., Simard, J.C., Girard, D. Interaction curcumin-neutrophils: Curcumin is a potent anti-inflammatory agent.
- P92 Roy, C., Gagné, V., Fernandes, M.J.G., Marceau, F. High affinity capture and retention of quinacrine in neutrophils via vacuolar ATPase-mediated ion trapping: Comparison with other peripheral blood leukocytes.
- P93 Jadhav, S., Bhardwaj, R. Neutrophil-like HL60 cell adhesion and spreading on polymer brush grafted surfaces.
- P94 Gonçalves, D.G., Arnedo, E.C., Babin, K., Girard, D. Evaluating the in vitro and in vivo pro-inflammatory potential of polyhydroxylated C60 fullerene (fullerenol).
- P95 Antonysamy, M.A., Nelson, M., Rathmann, B., Walsh, R., Ottoson, N., Grossman, W. Differential neutrophil binding of Imprime PGG®,  $\text{A}\beta$ -1,3/1,6 immunomodulatory glucan: A potential predictive biomarker for cancer immunotherapy.
- P96 Lafantaisie-Favreau, C.-H., Rusu, D., Poubelle, P.E., Hoemann, D.D. Alternative macrophage activation and neutrophil chemotaxis induced in vivo by chitosan/blood implants correlate with mast cell recruitment.
- P97 Farrera, C., Fadeel, B. Macrophage clearance of neutrophil extracellular traps is facilitated by DNase I and complement.

- P98 Halverson, T.W.R., Tom, M., Lewenza, S. Resistance mechanisms used by *Pseudomonas aeruginosa* to evade neutrophil extracellular trap killing.
- P99 Parker, H., Albrett, A.M., Kettle, A.J., Winterbourn, C.C. Myeloperoxidase associated with neutrophil extracellular traps is active and mediates bacterial killing in the presence of hydrogen peroxide.
- P100 Czaikoski, P.G., Nascimento, D.C.B., Sônego, F., Castanheira, F.V., de Abreu, M.A., Alves-Filho, J.C.F., Cunha, F.Q. Neutrophil extracellular traps induce organic damage during LPS-induced endotoxic shock.
- P101 Metzler, K.D., Zychlinsky, A., Papayannopoulos, V. The roles of myeloperoxidase and elastase in neutrophil extracellular trap formation.
- P102 Douda, D.N., Yip, L., Hartmut, G., Palaniyar, N. Surfactant protein D (SP-D) enhances the clearance of neutrophil extracellular traps (NETs) by alveolar macrophages.
- P103 Cheng, O.Z., Douda, D.N., Yip, L., Rotin, D., Palaniyar, N. Novel mouse model with cystic fibrosis-like lungs exhibit age-dependent increase in neutrophils and neutrophil extracellular traps.
- P104 Yuen, J., Pluthero, F.G., Kahr, W.H.A., Palaniyar, N., Licht, C. Neutrophil extracellular traps contain complement component 3, properdin, and complement factor H of complement alternative pathway.
- P105 Calvo, E., Campos-Chagas, A., Oliveira, L.F., Valenzuela, J.G., Ribeiro, J.M.C. LJL138 a salivary endonuclease from *L. longipalpis* allows leishmani parasites to escape from neutrophil extracellular traps.
- P106 Barrientos, L., Marin-Esteban, V., de Chaisemartin, L., Sandré, C., Lievin-Le Moal, V., Pallardy, M., Chollet-Martin, S. An original method to isolate functional neutrophil extracellular traps.
- P107 Caudrillier, A., Kessenbrock, K., Gilliss, B.M., Nguyen, J.X., Marques, M.B., Monestier, M., Toy, P., Werb, Z., Looney, M.R. Platelets induce neutrophil extracellular traps in transfusion-related acute lung injury.
- P108 Kolaczkowska, E., Sanz, M.J., Lee, W.Y., Kubes, P. Neutrophil extracellular trap (NET) formation in vivo: comparison of gram-negative and -positive bacterial sepsis.
- P109 Martinod, K., Brill, A., Demers, M., Thomas, G.M., Wagner, D.D. Histone citrullination and neutrophil extracellular traps in thrombosis.
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