

Scientific Program

Oral presentations: Ballroom

Saturday, May 31, 2014:

- 15h00 – 18h00 Registration
19h00 **Opening Session: in memory of Pierre Borgeat, Ph.D.**
Chairs: William M. Nauseef, Patrick P. McDonald
Introductory Remarks: Patrick P. McDonald
- Opening Lectures :*
- 19h15-19h45 William M. Nauseef, Coralville, IA, USA: Milestones & missteps: tales of an oxidase journeyman
19h45-20h15 Erzsébet Ligeti, Budapest, Hungary: Mechanism of production of antibacterial and non-antibacterial extracellular vesicles from neutrophils
- 20h15 Welcoming Reception and Light Dinner, Le Caf'Conc'

Sunday, June 1, 2014:

- 8h00 Continental breakfast, Ballroom Foyer

Session I

Neutrophil functional responses

Chairs: Sylvain Bourgoïn, Denis Girard, Attila Mocsai

- 8h30 – 8h55 Attila Mocsai, Budapest, Hungary: Regulation of neutrophil functions by tyrosine phosphorylation pathways
8h55 – 9h20 Lani Wu, Dallas, TX, USA: Reverse engineering neutrophil polarity network
9h20 – 9h45 Clifford A. Lowell, San Francisco, CA, USA: The Stim1 calcium sensor and the Orai1 calcium channel in neutrophil activation
9h45 – 10h10 Anna Huttenlocher, Madison, WI, USA: ROS/SFK regulation of resolution of neutrophil inflammation in zebrafish
- 10h10 – 10h45 Break (beverage service, Ballroom Foyer)
- 10h45 – 11h10 Larissa Dyugovskaya, Haifa, Israel: Development of giant phagocytes in long-term neutrophil cultures

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- 11h10 – 11h35 George Hajishengallis, Philadelphia, PA, USA: Neutrophil homeostasis and IL-17-driven inflammation
- 11h35 – 12h00 Alberto Mantovani, Milano, Italy: The long pentraxin PTX3 in neutrophil-mediated antimicrobial resistance
- 12h00 – 13h35 Complimentary Lunch (Cartier Room)

Session II

Regulatory mechanisms

Chairs: Patrick P. McDonald, Martin Olivier, Bruce D. Levy

- 13h35 – 14h00 Eckhard R. Podack, Miami, FL, USA: Critical function of Perforin-2 in PMN defense against bacteria
- 14h00 – 14h25 Bruce D. Levy, Boston, MA, USA: Regulation of neutrophils by select pro-resolving mediators
- 14h25 – 14h50 Roy J. Soberman, Boston, MA, USA: Integrating signals *via* membrane complexes and supramolecular structures
- 14h50 – 15h15 Michael Schnoor, Mexico City, Mexico: HS1 regulates chemokine-induced Rap-1 activation in neutrophils to facilitate transmigration
- 15h15 – 15h45 Christian C. Yost, Salt Lake City, UT, USA: A novel endogenous regulator of NETs
- 15h40 – 16h15 Break (beverage service, Ballroom Foyer)
- 16h15 – 16h40 Barbara Walzog, Munich, Germany: Integrin signalling and neutrophil trafficking during inflammation
- 16h40 – 17h30 **The Trainees' Session – Part 1:** Sponsored by CIHR. Four oral presentations selected from volunteered abstracts (12 min + 3 min discussion)
- Tim Lämmermann, Bethesda, MD, USA: Mechanisms of neutrophil swarming *in vivo*
 - Maria Casanova-Acebes, Madrid, Spain: Neutrophils limit the levels and entrain the rhythms of circulating hematopoietic progenitors
 - Bashar Hamza, Charlestown, MA, USA: Retrotaxis of human neutrophils *in vitro*
 - Benjamin Hurrell, Epalinges, Switzerland: The rapid sequestration of parasites by neutrophils prevents the development of a parasite-specific protective immune response

Monday, June 2, 2014:

- 8h00 Continental breakfast, Ballroom Foyer

Session III

Neutrophils in inflammation and immunity

Chairs: Sylvain Bourgoin, Sachiko Sato, Klaus Ley

- 8h30 – 8h55 Klaus Ley, La Jolla, CA, USA: Integrin activation during neutrophil arrest
- 8h55 – 9h20 Balazs Rada, Athens, GA, USA: Neutrophil-*Pseudomonas aeruginosa* interactions: potential relevance in cystic fibrosis airway disease
- 9h20 – 9h45 Oliver Soehnlein, Munich, Germany: The role of neutrophils in atherosclerosis
- 9h45 – 10h10 Peter M. Henson, Denver, CO, USA: Roles for neutrophils in resolution of inflammation and injury
- 10h10 – 10h45 Break (beverage service, Ballroom Foyer)
- 10h45 – 11h10 Andrew D. Luster, Boston, MA, USA: Neutrophil activation and recruitment in inflammatory arthritis
- 11h10 – 12h10 **The Trainees' Session – Part 2:** Sponsored by CIHR. Four oral presentations selected from volunteered abstract (12 min + 3 min discussion)
- Caitlin M. Gillis, Paris, France: Neutrophils induce anaphylaxis in IgG-receptor humanised mice
 - James D. Robertson, Sheffield, UK: Polymersome mediated intracellular delivery into primary human neutrophils: a tool for neutrophil research and targeted therapeutics.
 - Jean-Christophe Simard, Laval, QC, Canada: Aged neutrophils can exert biological functions but will eventually acquire the 'rest-in-plate' (RIP) cell morphology over time: RIP, a novel structure recognized by professional phagocytes.
 - Maria Rosaria Galdiero, Milano, Italy: Prognostic and predictive significance of tumor infiltrating neutrophils in patients with colorectal cancer.
- 12h10 – 13h00 Complimentary Lunch

Session IV

Poster Session: Sponsored by Héma-Québec. Viger Room

Chair: François Marceau

- 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)

Session V

Pathogen-neutrophil interaction

Chairs: Martin Olivier, Sachiko Sato, Eric Y. Denkers

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- 16h15 –16h40 Eric Y. Denkers, Ithaca, NY, USA: Towards an understanding of neutrophil function during infection with *Toxoplasma gondii*
- 16h40 –17h05 Martin Olivier, Montréal, QC, Canada: Neutrophil myeloid related proteins and protozoan infection
- 17h05 –17h30 David Sacks, Bethesda, MD, USA: Apoptotic cell clearance of *Leishmania major* infected neutrophils by dendritic cells in the skin delays the anti-*Leishmania* T cell response by Mer TK dependent signaling
- 17h30 –17h55 Akira Takashima, Toledo, OH, USA: Neutrophil differentiation into a hybrid leukocyte population exhibiting dual functionality of professional phagocytes and antigen presenting cells
- 17h55-18h20 Felix Yarovinsky, Dallas, TX, USA: Neutrophil IFN- γ in host defense against intracellular pathogens

Cocktails and Awards for the Trainees' Session: Le Caf'Conc'

- 18h30 Presentation Awards and Cocktail.
The first prize will be in memoriam, Pierre Borgeat.
- 19h30 Optional Dinner out: Les 3 Brasseurs, 105, rue St-Paul Est, Old Montreal

Tuesday, June 3, 2014:

- 8h00 Continental breakfast, Ballroom Foyer

Special Feature

Homegrown science – Emerging topics

Chairs: Claude Perreault, Patrice E. Poubelle, Charles A. Parkos

- 8h30 – 8h50 Marc Pouliot, Quebec City, QC, Canada: Regulation of neutrophil-generated cytokines by glycogen synthase kinase-3: Novel regulatory checkpoint and therapeutic opportunities
- 8h50 – 9h10 Maria J. G. Fernandes, Quebec City, QC, Canada: Regulation of human neutrophil function by the myeloid inhibitory C-type lectin-like receptor: implications for chronic inflammatory diseases

Session VI

Neutrophils as therapeutic targets

Chairs: Claude Perreault, Patrice E. Poubelle, Charles A. Parkos

- 9h10 – 9h35 Charles A. Parkos, Atlanta, GA, USA: Pathobiology of neutrophil-epithelial interactions
- 9h35 – 10h00 Sean P. Colgan, Aurora, CO, USA: Transmigrating neutrophils shape the mucosal microenvironment through localized oxygen depletion
- 10h00 – 10h25 Sven Brandau, Essen, Germany: Neutrophil function in tumor-host interaction
- 10h25 – 11h00 Break (beverage service, Ballroom Foyer)
- 11h00 – 11h25 Sarah Walmsley, Sheffield, UK: Regulation of neutrophilic inflammation by the HIF/PHD pathway
- 11h25 – 11h50 Thomas S. Griffith, Minneapolis, MN, USA: BCG-induced antitumor immunity for bladder cancer – Are neutrophils the unsung heroes?
- 11h50 – 12h15 Susanne Kirschnek, Freiburg, Germany: Analysis of gene defects in severe congenital neutropenia
- 12h15 – 12h20 Concluding Remarks

Poster Session:

Posters are on display in the Viger Room, from Sunday 8h30 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 Alarcón, P., Conejeros, I., Muñoz Caro, T., Taubert, A., Hermosilla, C., Burgos, R.A. D-Lactic acid increases adhesion and NET formation in bovine neutrophils.
- P2 Rosales, C., Aleman, O.R., Mora, N., Uribe-Querol, E. Neutrophil Fc γ receptor IIIB induces NET formation.
- P3 Wu, W.-C., Chen, S., Yang, C.-Y., Hsieh, S.-L. Decoy receptor 3/TNFRSF6B regulates NETS formation against *C. albicans*.
- P4 Chen, S.-T., Yang, C.-Y., Chen, T.-W., Wu, W.-C., Hsieh, S.-L. CLEC5A is critical for pathogen-induced NETs formation.
- P5 Chollet-Martin, S., Barrientos, L., Gueguen, C., Bignon, A., de Chaisemartin, L., Gorges, R., Sandré, C., Mascarell, L., Balabanian, K., Kerdine-Römer, S., Pallardy, M., Marin-Esteban, V. Neutrophil extracellular traps downregulate LPS-induced activation of monocyte-derived dendritic cells.
- P6 Najmeh, S., Cools-Lartigue, J., Williams, H., Jiang, H., Giannias, B., Bourdeau, F., Ferri, L. Protein composition of neutrophil extracellular traps (NETs) suggests possible mechanism of interaction with cancer cells.
- P7 Al-Khafaji, A.B., Miller, D., Huang, H., Tsung, A. Reactive oxygen species induce neutrophil extracellular traps via Toll-like receptor 4.
- P8 Huang, H., Tohme, S., Al-Khafaji, A.B., Tsung, A. Histone-activated neutrophil extracellular trap formation exacerbates sterile inflammatory liver injury.
- P9 Lefrançais, E., Looney, M.R. Role of neutrophil extracellular traps in lung host defense.
- P10 Filio-Rodríguez, G., Estrada-García, I., Arce-Paredes, P., Islas-Trujillo, S., Becerril-Villanueva, E., Moreno-Altamirano, B., Rojas-Espinosa, O. *In vivo* and *in vitro* induction of neutrophil extracellular traps by *Mycobacterium tuberculosis*.
- P11 Guimarães-Costa, A.B., Rochael, N.C., Echevarria-Lima, J., Saraiva, E. Neutrophil extracellular traps impair monocyte differentiation into dendritic cells.

- P12 DeSouza-Vieira, T.S., Guimarães-Costa, A.B., Rochael, N.C., Nascimento, M.T.C., Lira, M.N., Mariante, R.M., Persechini, P.M., Saraiva, E.M. PI3K, ERK, PKC and calcium are required for NETosis induced by *Leishmania*.
- P13 Khan, M.A., Douda, D.N., Yang, C., Swezey, N.B., Post, M., Palaniyar, N. Elucidation of potential alternate NADPH oxidase-independent pathways in ionophore mediated NETosis.
- P14 Reichner, J.S., O'Brien, X.M., Laforce-Nesbitt, S., Zarembek, K.A., Sampaio, E.P., Bliss, J.M., Newburger, P.E., Holland, S.M., Byrd, A.S. Neonatal neutrophils release NETs in response to fungal β -glucan and fibronectin.
- P15 Giaglis, S., Gupta, A.K., Stoikou, M., Hasler, P., Hahn, S. Efficient neutrophil extracellular trap induction requires mobilization of both intra- and extracellular calcium pools and is modulated by the calcineurin pathway.
- P16 Giaglis, S., Chowdhury, C.S., Stoikou, M., Reisser, T., Wunderle, A., Buser, A., Hasler, P., Hoesli, I., Lapaire, O., Hahn, S. Polymorphonuclear granulocytes exhibit an enhanced NETotic response during pregnancy and post-partum.
- P17 Ricci-Azevedo, R., Lima, J.E.E., Pereira, A.F.O., Roque-Barreira, M.C. Neutrophil surface glycans as targets for NETosis induction.
- P18 Wat, J.M., Douda, D.N., Khan, M.A., Licht, C., Palaniyar, N. Identification of signaling pathways involved in neutrophil extracellular trap formation.
- P19 Langereis, J.D., Weiser, J.N. Binding of IgM to non-typeable *Haemophilus influenzae* lipooligosaccharide increases neutrophil-mediated killing.
- P20 Brunner, K., Jones, H., Stephenson, H., Klein, N., Bajaj-Elliott, M. *Campylobacter jejuni* induces cleavage and secretion of interleukin-1 β (IL-1 β) in human peripheral blood neutrophils.
- P21 Souwer, Y., Muller, F., Varga, D., Bar-Ephraïm, J., Kuijpers, T., Kapsenberg, M., de Jong, E. Pathogen-activated neutrophils are essential to initiate human TH17 responses.
- P22 Allen, L.-A. H., Rohner, O.V. Neutrophils enhance *Helicobacter pylori* replication and the bacteria, in turn, alter neutrophil phenotype and lifespan.
- P23 Winter, N., Lombard, R., Carreras, F., Doz, E., Levern, Y., Rossignol, C., Berthon, P., Buzoni-Gatel, D. IL-17RA in non-hematopoietic cells controls the recruitment to the lung of an adaptive wave of IL-10-producing neutrophils in *Mycobacterium*-infected mice.
- P24 Smirnov, A., Daily, K.P., Criss, A.K. NADPH oxidase assembly in primary human neutrophils infected with *Neisseria gonorrhoeae*.

- P25 Sturge, C.R., Benson, A., Raetz, M., Wilhelm, C.L., Mirpuri, J., Vitetta, E.S., Yarovinsky, F. TLR-independent neutrophil-derived IFN- γ is important for host resistance to intracellular pathogens.
- P26 Welin, A., Björnsdóttir, H., Christenson, K., Karlsson, A., Dahlgren, C., Bylund, J. CFP-10 from *M. tuberculosis* activates human neutrophils through a neutrophil-specific and pertussis toxin-sensitive chemotactic receptor.
- P27 Björnsdóttir, H., Welin, A., Christenson, K., Forsman, H., Stylianou, M., Urban, C., Dahlgren, C., Karlsson, A., Bylund, J. Cytotoxic peptides from *S. aureus* cause neutrophil cell death with NET-like features.
- P28 Rapala-Kozik, M., Zawrotniak, M., Aoki, W., Ueda, M., Gogol, M., Seweryn, K., Wolak, N., Bochenska, O., Karkowska-Kuleta, J., Kluza, A., Kozik, A. Virulence factors of pathogenic yeast *Candida albicans* that affect the efficiency of fungal cell killing by extracellular traps.
- P29 Storisteanu, D.M.L., Pocock, J.M., Reeves, M., Juss, J.K., Wills, W., Chilvers, E.R., Cowburn, A.S. HCMV induces neutrophil survival, autophagy, and the secretion of a pro-survival secretome that facilitates viral infection.
- P30 Vareechon, C., Pearlman, E., Rietsch, A. *Pseudomonas aeruginosa* type III secretion inhibits granule fusion and reactive oxygen species production by neutrophils.
- P31 de Jesus, S., Taylor, P., Leal Jr., S.M., Paul-Latge, J., Pearlman, E. Neutrophil chitinases and *Aspergillum* chitin synthases regulate fungal growth in the cornea.
- P32 Burger, E., Brigagao, M.R.P.L., Mendes, A.C.S.C., Bani, G.M.A.C., Rezende, D.B., Chavasco, J.K., Malaquias, L.C.C., Verinaud, L.M.C., Sperandio, F.F. Low-power laser irradiation enhances the metabolism and fungicidal capacity of neutrophils.
- P33 Sperandio, F.F., Brigagao, M.R.L.P., Bani, G.M.A.C., Mendes, A.C.S.C., Rezende, D.B., Malaquias, L.C.C., Chavasco, J.K., Verinaud, L.M.C., Burger, E. Low-power laser treatment enhances the fungicidal capacity of neutrophils.
- P34 Uriarte, S.M., Armstrong, C.L., Neff, A.C., Le, J., Rodriguez-Hernandez, L., Wang, Q., Lamont, R.J. An emerging oral pathogen, *Filifactor alocis*, can delay neutrophil killing mechanisms.
- P35 Murphy, M., Caraher, E. Biofilm formation by cystic fibrosis-pathogenic *Burkholderia cepacia* complex (BCC) bacteria allows them to evade neutrophil anti-microbial activities.

- P36 Meccas, J., Rolan, H.G., Durand, E.A. Identifying *Yersinia* YopH-targeted signal transduction pathways that impair neutrophil responses during *in vivo* murine infection.
- P37 Deng, M., Ma, T., Scott, M.J., Chhinder, S., Hackam, D., Billiar, T.R. TLR4-dependent IL10 from DC suppresses CXCR2 expression and neutrophil trafficking during sepsis.
- P38 Sato, S., Bhaumik, P., Nieminen, J., St-Pierre, G., St-Pierre, C. Galectin-3 is a damage-associated molecular pattern, which facilitates early neutrophil recruitment in the initial stage of pathogenic bacterial and parasite infection.
- P39 Wu, S.-Y., Wu-Hsieh, B.A. Modulation of neutrophil function against *Candida albicans* by galectin-3.
- P40 Hergott, C.B., Weiser, J.N. *Streptococcus pneumoniae* evades the neutrophil response to colonization through hydrolysis of platelet-activating factor.
- P41 Jaillon, S., Moalli, F., Ragnarsdottir, B., Bonavita, E., Nebuloni, M., Markotic, A., Montanelli, A., Svanborg, C., Garlanda, C., Mantovani, A. Role of the humoral pattern recognition molecule PTX3 in defense against urinary tract infections.
- P42 Brécard, S., Naegelen, I., Plançon, S., Nicot, N., Kaoma, T., Muller, A., Vallar, L., Tschirhart, E.J. Syntaxin 3 regulates cytokine secretion induced by LPS.
- P43 Berger, E.A., Wolf, N., McWhirter, C.R. Neutrophil transdifferentiation as a factor of disease pathogenesis.
- P44 Carlo, T., Douda, D.N., Abdulnour, R.-E.E., Croze, R., Levy, B.D. Disruption of the polyisoprenyl diphosphate phosphatase 1 gene enhances neutrophil dependent bacterial clearance in a murine model of pneumonia.
- P45 Benarafa, C., Basilico, P., Cremona, T.P. Altered myelopoiesis and bacterial clearance in neutropenic SerpinB1^{-/-} mice following G-CSF therapy and cigarette smoke exposure.
- P46 Leliefeld, P., Pillay, J., Heeres, M., Rooijackers, S., Leenen, L., Koenderman, L. Aberrant killing of *S. aureus* by immunoregulatory neutrophils: the neutrophil as a Trojan horse.
- P47 Christian, J.G., Arulthas, S., Chen, J., Tessier, P.A., Olivier, M. Impact of *Leishmania*-neutrophil interactions on macrophage signaling.
- P48 Shrestha, S., Park, S.Y., Young, S., Song, D.K., Hong, C.W. Neutrophils in community-acquired pneumonia patients are characterized by hyposegmented and primed phenotype.

- P49 Lamoureux, J., Fülöp, T., Lesur, O. Neutrophil's behavior in severe and refractory human sepsis: impact of corticosteroids (*in vivo* and *in vitro*).
- P50 Ligeti, E., Timár, C.I., Kolonics, F., Iványi, Z. Impairment of neutrophil functions in sepsis: role of a heat-stable plasma factor.
- P51 Dapunt, U., Giese, T., Stegmaier S., Ewerbeck, V., Hänsch, G.M. On the release of MRP-14 by neutrophils in orthopaedic infections.
- P52 Ingersoll, S.A., Laval, J., Preininger, M., Forrest, O., Brown, M., Tirouvanziam, R. Dynamic expression of T-cell suppressive molecules Arginase-1 and Programmed Death Ligand-1 by mature airway neutrophils in cystic fibrosis.
- P53 Forrest, O., Ingersoll, S., Preininger, M., Laval, J., Brown, M., Tirouvanziam, R. Combined *in vivo* and *in vitro* analyses identify the caspase-1 / interleukin-1 β / TRPM2 axis as a significant contributor to neutrophilic airway inflammation in cystic fibrosis.
- P54 Davis, R., Oliveira, J., Carneiro, P., Sharma, S., Sundar, S., Bacellar, M., Carvalho, E., Wilson, M. MHCII⁺ PMN arise during acute cutaneous *Leishmania* infection and can influence T cells.
- P55 Su, Q.B., Seltzer, Z., Sima, C., Lakschevitz, F.S., Glogauer, M. New quantitative trait loci for neutrophil recruitment in sterile inflammation identified in AXB-BXA recombinant inbred mice.
- P56 McLeish, K.R., Creed, T.M., Tandon, S., Merchant, M.L. Tumor necrosis factor stimulates phosphorylation of synaptic active zone proteins expressed in human neutrophils.
- P57 Proudfoot, A., Juss, J., Appleby, S., Morley, P., Cordy, J., Bayliffe, A., Hind, M., Chilvers, E., Griffiths, M., Summers, C. Effects of differential TNF- α receptor signalling in human neutrophils.
- P58 Germena, G., Volmering, S., Sohlbach, C., Hummel, S., Zarbock, A. Mutation in the CD45 inhibitory wedge alters neutrophil recruitment.
- P59 Stadtmann, A., Block, H., Boras, M., Volmering, S., Zarbock, A. SHP-1 negatively regulates integrin activation and leukocyte recruitment.
- P60 Boras, M., Block, H., Kliche, S., Zarbock, A. Src kinase-associated phosphoprotein 2 (SKAP2) is required for integrin activation and leukocyte recruitment.
- P61 Volmering, S., Block, H., Zarbock, A. Bruton's tyrosine kinase (Btk) is required for neutrophil recruitment during sterile inflammation.

- P62 Fontes, W., Fonseca, M.P., Castro, M.S., Roepstorff, P. Label free proteomic analysis of human neutrophils activated by fMLP.
- P63 Fontes, W. Tahir, M., Arshid, S., Montero, E., Fontes, B., Castro, M.S., Sidoli, S., Roepstorff, P. Quantitative proteomic analysis of rat neutrophils after intestinal ischemia and reperfusion.
- P64 Fontes, W., Tahir, M., Arshid, S., Heimbecker, A.M.C., Castro, M.S., Montero, E.F.S., Fontes, B. Effects of the ischemic preconditioning on the hematological parameters.
- P65 Simard, J.-C., Noël, C., Tessier, P.A., Girard, D. S100A9 potentiates IL-8 production in response to GM-CSF fMLP via activation of a different set of transcription factors.
- P66 Schenten, V., Bréchar, S., Melchior, C., Plançon, S., Tschirhart, E.J. Regulation of the neutrophil NADPH oxidase by the calcium-binding proteins S100A8 and S100A9.
- P67 Clark, H.L., Vareechon, C., Sun, Y., Pearlman, E. Neutrophil S100A8/S100A9 (calprotectin) limits *Aspergillus fumigatus* growth through zinc chelation.
- P68 Gray, R.D., MacKellar, A., Davidson, D.J. Calprotectin (S100A8/A9): a biomarker of neutrophilic inflammation in cystic fibrosis man and mouse with pro-inflammatory function.
- P69 Dumas, E., Martel, K., Neagoe, P.-E., McDonald, P.P., Sirois, M.G. New insights into the pro-inflammatory activities of Ang1 on neutrophils; induction of MIP-1 β synthesis and release.
- P70 Neagoe, P.-E., Haddad, L., Sirois, M.G. Angiopoietin-1 upregulates *de novo* expression of IL-1 β and IL1-RA, and the exclusive release of IL1-RA from human neutrophils.
- P71 Giambelluca, M.S., Bertheau-Mailhot, G., Rollet-Labelle, E., Laflamme, C., Servant, M.J., Pouliot, M. Glycogen synthase kinase-3 regulates the translation of TNF- α mRNA in LPS-stimulated neutrophils.
- P72 Giambelluca, M.S., Ciancio, M.C., Orłowski, A., Gende, O.A., Pouliot, M., Aiello, E.A. Characterization of the Na⁺/HCO₃⁻ cotransport in human neutrophils.
- P73 Espinasse, M.-A., Virault-Rocroy, P., Chollet-Martin, S., Pallardy, M., Biola-Vidamment, A. Glucocorticoid-induced leucine zipper (GILZ) promotes apoptosis *in vitro* in neutrophil-like cells.
- P74 Vago, J.P., Tavares, L.P., Garcia, C.C., Lima, K.M., Perrucci, L.O., Vieira, E.L., Nogueira, C.R.C., Soriani, F.M., Martins, J.O., Bruscoli, S., Riccardi, C., Morand,

- E., Silva, P.M.R., Pinho, V., Teixeira, M.M., Sousa, L.P. The role of glucocorticoid-induced leucine zipper (GILZ) in the context of resolution of acute inflammation.
- P75 Dorhoi, A., Iannaccone, M., Farinacci, M., Faé, K.C., Schreiber, J., Moura-Alves, P., Mollenkopf, H.-J., Del Nonno, F., Goletti, D., Capparelli, R., Kaufmann, S.H.E. MicroRNA-223 constrains excessive neutrophil trafficking to the lung in *Mycobacterium tuberculosis* infection by targeting CXCL2, CCL3 and IL-6.
- P76 Tolosa, M., Palaniyar, N. The role of miRNAs in the regulation of NETosis.
- P77 Mayer, T.Z., McDonald, P.P. STAT factors are activated by various stimuli in neutrophils but hardly contribute to cytokine production or delayed apoptosis.
- P78 Tatsiy, O., Ear, T., McDonald, P.P. Involvement of TAK1 in cytokine production and NET formation in monosodium urate-activated human neutrophils.
- P79 Uddin, M., Holden, N.S., Berntsson, P., Ehnebom, J., Nordberg, M., Björhall, K., Lindmark, H., Carlsson, J.F., Perry, M., Mogemark, M., Karabelas, K. Dissecting the regulatory roles of class I phosphatidylinositol 3-kinases in the oxidative burst of human neutrophils.
- P80 Sundqvist, M., Welin, A., Elmvall, J., Osla, V., Nilsson, U., Leffler, H., Bylund, J., Karlsson, A. Dominant negative galectin-3 (CRD) inhibits neutrophil activation by galectin-3 but contributes to galectin-3 binding by type-C self-association.
- P81 Krieg, C., Guglietta, S., Boyman, O. IL-4 inhibits neutrophil migration and effector function.
- P82 Vorobjeva, N.V., Golubeva, N.M., Pinegin, B.V. Essential role of actin cytoskeleton in regulation of neutrophil exocytosis induced with opsonized zymosan.
- P83 Douda, D.N., Tan, S.H., Levy, B.D. Resolvin D1 promotes natural killer cell-initiated neutrophil apoptosis.
- P84 Kremserová, S., Perečko, P., Souček, K., Klinke, A., Kolářová, H., Baldus, S., Eiserich, J.P., Kubala, L. Myeloperoxidase modulates neutrophil cell death induced by oxidative burst.
- P85 Johnson, C.M., Parisi, V., Loosley, A., Byrd, A., Reichner, J.S. Integrin crosstalk regulation of human neutrophils adhered to fibronectin and β -glucan.
- P86 Skrzeczyńska-Moncznik, J., Bzowska, M., Guzik, K. Neutrophil surface HSP27 is sequestered in multiprotein complexes with client proteins.

- P87 Kuhns, D.B., Gallin, J.I. A metabolomics analysis of phorbol ester-induced PMN activation.
- P88 Clemens, R., Hu, Y., Lowell, C. Orai1 is selectively required for LFA1-dependent calcium flux in murine neutrophils.
- P89 Wang, J.-X., Soberman, R., Nigrovic, P. CD177 participates in the regulation of β 2-integrin dependent neutrophil migration.
- P90 Bagaitkar, J., Dinauer, M.C. NADPH oxidase regulates G-CSF and neutrophilic inflammation.
- P91 Tong, C., Cheng, O.Z., Doua, D.N., Rotin, D., Palaniyar, N. Neutrophil and macrophage phenotypes in inflamed airways.
- P92 Gamara, J., Rollet-Labelle, E., Davis, L., Aoudjit, F., Bourgoin, S.G. Characterization of neutrophil-specific Arf6 conditional KO mice.
- P93 Catz, S.D., Monfregola, J., He, J., Napolitano, G., Ramadass, M., Johnson, J.L. Munc13-4 regulates late endosome dynamics, maturation and signaling in neutrophils.
- P94 Hoenderdos, K., Hirst, R.A., Porter, P., O'Callaghan, C., Chen, C., Chilvers, E.R., Condliffe, A.M. The effects of hypoxia on neutrophil degranulation.
- P95 Noël, C., Simard, J.-C., Girard, D. Interaction between human neutrophils and different gold nanoparticles: cleavage of cytoskeletal proteins without cell surface expression during apoptosis.
- P96 Vallières, F., Poirier, M., Girard, D. Differential effects of silver nanoparticles of 20 and 70 nm in human neutrophils.
- P97 Koch, S., Doss, F., Altrichter, J., Mitzner, S. Patented cell purification method allowing storage of purified granulocyte concentrates for 72 hours.
- P98 Fine, N., Lakschevitz, F., Raisin, J., Glogauer, M. Analysis of CD marker expression on human blood and oral neutrophil subsets.
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- P145 Hammoudi-Triki, D., Saidi, H., Khémili, D., Laraba-Djebari, F. Neutrophil cells response induced by scorpion crude venom: *in vivo* and *in vitro* studies.
- P146 Robertson, J.D., Prajsnar, T.K., Foster, S.J., Battaglia, G., Renshaw, S.A. Understanding the role of neutrophils in staphylococcal pathogenesis using a polymeric vector for the intracellular delivery of antibiotics.
- P147 Flemmig, J., Remmler, J., Leichsenring, A., Bäcker, I., Lange, F., Arnhold, J. Regeneration of the chlorinating myeloperoxidase activity in isolated neutrophils by (–)-epicatechin.
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Poster Session

- P151 Laflamme, C., Bertheau Mailhot, G., Giambelluca, M.S., Cloutier, N., Boilard, É., Pouliot, M. Evidence of impairment of normal inflammatory reaction by a high-fat diet.
- P152 Ubags, N., Stapleton, R., Wouters, E., Vernooij, J., Suratt, B. Hyperleptinemia's effects on the pulmonary neutrophil response.
- P153 van Hout, G., de Jong, R., Teuben, M., Nijhoff, F., den Breeijen, J., Duckers, H., Koenderman, L., Stella, P., van Solinge, W., Pasterkamp, G., Hoefler, I. Mean neutrophil volume predicts cardiac damage after myocardial infarction.
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- P156 Baehl, S., Cabana, F., Lorrain, D., Viens, I., Svetolis, A., Lord, J., Dupuis, G., Fulop, T. Effect of a catastrophic event, the hip fracture, on neutrophil functions of elderly subjects.
- P157 Bekeschus, S., Parker, H., Winterbourn, C., Weltmann, K.-D., Bröker, B., Masur, K. Anti-inflammatory responses in neutrophils after physical plasma treatment for the healing of chronic wounds.
- P158 Allaey, I., Gymnino, I., Ribeiro De Vargas, F., Poubelle, P.E. Neutrophils: a pathological target for IL-32.
- P159 Paoliello-Paschoalato, A.B., Marchi, L.F., Oliveira, R.D.R., Azzolini, A.E.C.S., Donadi, E.A., Lucisano-Valim, Y.M. Expression and function of Fc- γ and complement receptors in peripheral blood neutrophils from rheumatoid arthritis patients treated with methotrexate.
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- P161 Chatfield, S.M., Grebe, K., McKenzie, B.S., Wicks, I.P. Neutrophil extracellular traps (NETS) are present in the joint fluid of inflammatory arthritis patients.
- P162 Naik, H.B., Stansky, E., Krishnamoorthy, P., Doveikis, J., Rose, S., Kaplan, M.J., Mehta, N.N. Characterization of low density granulocytes in psoriasis vulgaris.

- P163 Carmona-Rivera, C., Zhao, W., Yalavarthi, S., Kaplan, M.J. Neutrophil extracellular traps induce endothelial dysfunction in systemic lupus erythematosus through the activation of matrix metalloproteinase-2.
- P164 Moses, K., Dumitru, C.A., Brandau, S. Tumor derived factors modulate neutrophil granulocytes to promote head and neck cancer development.
- P165 Williams, H., Cools-Lartigue, J., Najmeh, S., Giannias, B., Ferri, L. Neutrophils stimulated with heat inactivated bacteria increase cancer cell adhesion.
- P166 Glogauer, J., Magalhaes, M., Sun, C., Glogauer, M. Neutrophils increase oral squamous cell carcinoma invasion through an invadopodia-dependent pathway.
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- P168 Taylor, P.R., Roy, S., Leal, Jr. S.M., Sun, Y., Howell, S.J., Pearlman, E. Autocrine IL-17A–IL-17RC neutrophil activation in fungal infections is regulated by IL-6, IL-23, ROR γ t and Dectin-2.
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- P170 Keszei, M., Baptista, M., Westerberg, L. Neutropenia in the WASP-I296T knock-in mouse model.
- P171 Galani, I., Triantafyllia, V., Pyrillou, K., Stravropoulos, A., Sideras, P., Andreakos, E. Exploring the role of neutrophils in severe influenza infection.
- P172 Mena, S.J., Manosalva, C., Burgos, R.A., Hidalgo, M.A. Long chain fatty acids activate MAPK and PI3K/Akt pathways through GPR40/FFA1 receptor in bovine neutrophils.

