

---

# Program



Wednesday, May 28

**12:00 Registration opens**

**4:00 Poster session & mixer**

**6:00 A Native American welcome: Tony Redhouse**

PARP 2008 Oral Session 1

6:15 Elaine Jacobson, University of Arizona and Niadyne Development, Inc., Tucson, Arizona, USA  
*“Opening comments”*

6:30 Alexander Bürkle, University of Konstanz, Konstanz, Germany (Oral 1)  
*PARP 2008 Keynote presentation*  
*“ADP-ribose transfer reactions 2008 – Where do we go from here?”*

**7:30 Reception and dinner**

Thursday, May 29

**6:30 to 8:00 Breakfast and poster discussions**

PARP 2008 Oral Session 2 - Co-Chairs: Felix Althaus and Mitsuko Masutani

**Theme: Poly(ADP-ribosylation) and cellular responses to DNA damage (Part 1):**

- 8:00 Felix Althaus, University of Zürich, Zürich, Switzerland (Oral 2)  
*"PARs: The long arms of PARPs"*
- 8:25 John Pascal, Thomas Jefferson University, Philadelphia, Pennsylvania, USA (Oral 3)  
*"Identification and analysis of a novel Zinc-binding domain in human PARP-1"*
- 8:45 Hung-wen Liu, University of Texas, Austin, Texas, USA (Oral 4)  
*"Domain C of human poly(ADP-ribose) polymerase-1 is important for enzyme activity and contains a novel zinc-ribbon motif"*
- 9:05 Mathias Ziegler, University of Bergen, Bergen, Norway (Oral 5)  
*"NAD Metabolome Plenary Presentation: Pathways of NAD biosynthesis"*
- 9:50 Break and poster discussions**
- 10:20 Raymond Swanson, University of California, San Francisco, San Francisco, California, USA (Oral 6)  
*"Cell-type differences in mitochondrial and cytosolic NAD<sup>+</sup> pools dictate the effects of PARP-1 activation on total NAD<sup>+</sup> content"*
- 10:40 Alberto Chiarugi, University of Florence, Florence, Italy (Oral 7)  
*"Molecular basis of energy failure during PARP-1 hyperactivation"*
- 11:00 Mitsuko Masutani, National Cancer Center Research Institute, Tokyo, Japan (Oral 8)  
*"Function of poly(ADP-ribose) glycohydrolase in DNA damage response, tumorigenesis and development of renal lesions"*
- 11:25 WooKee Min, Leibniz Institute of Aging Research, Jena, Germany (Oral 9)  
*"Poly(ADP-ribose) glycohydrolase (PARG110) mediates S-phase checkpoint involving ATR activation"*
- 11:45 Michael Hagan, Virginia Commonwealth University, Richmond, Virginia, USA (Oral 10)  
*"Translocation of mitochondrial PARG limits ERK stimulated PARP-1 activation following ionizing irradiation"*

**12:05 to 2:00 Lunch and poster discussions**

## PARP 2008 Oral Session 3 - Co-Chairs: Friedrich Haag and James Kirkland

**Theme: ADP-ribosylation beyond PARPs 1/2 and DNA damage**

- 2:00 Frances Lund, Trudeau Institute, Saranac Lake, New York, USA (Oral 11)  
*“NAD Metabolome Plenary Presentation: Dual roles for the NAD metabolizing enzyme CD38: Regulation of signal transduction by modulation of NAD content and by production of metabolites that control calcium signaling”*
- 2:45 James Kirkland, University of Guelph, Guelph, Ontario, Canada (Oral 12)  
*“Niacin status, CD38 genotype, cyclic ADP-ribose and behavior in rats”*
- 3:05 Uh-Hyun Kim, Chonbuk National University, Jeonju, Korea (Oral 13)  
*“Generation of NAADP and cADPR by CD38 in IL8-treated LAK cells”*
- 3:25 Joel Moss, National Institutes of Health, Bethesda, Maryland, USA (Oral 14)  
*“NAD Metabolome Plenary Presentation: Mono-ADP-ribosylation: A regulatory modification of proteins in health and disease”*
- 4:10 Break and poster discussions**
- 4:40 Bernhard Lüscher, RWTH Aachen University, Aachen, Germany (Oral 15)  
*“Substrate-assisted catalysis by PARP10 limits its activity to mono(ADP-ribosylation)”*
- 5:00 Mirella Meyer-Ficca, University of Pennsylvania, Kennett Square, Pennsylvania, USA (Oral 16)  
*“Functional characterization of PARP11”*
- 5:20 Susan Rosser, Glasgow University, Glasgow, Scotland (Oral 17)  
*“The role of poly(ADP-ribosylation) in plant stress responses”*
- 5:40 Friedrich Koch-Nolte, University Medical Center, Hamburg, Germany (Oral 18)  
*“Structure and function of mammalian ADP-ribosylhydrolases (ARHs)”*
- 6:00 Tobias Karlberg, Karolinska Institute, Stockholm, Sweden (Oral 19)  
*“Structural genomics on PARPs”*
- 6:20 Thursday evening open**

Friday, May 30

**6:30 to 8:00 Breakfast and poster discussions**

PARP 2008 Oral Session 4 - Co-Chairs: Michael Hottiger and Raymond Swanson

**Theme: poly(ADP-ribosyl)ation and gene regulation**

- 8:00 W. Lee Kraus, Cornell University, Ithaca, New York, USA (Oral 20)  
*“Genomic analyses of gene regulation by poly(ADP-ribose) polymerase-1”*
- 8:25 Malka Cohen-Armon, Tel-Aviv University, Tel-Aviv, Israel (Oral 21)  
*“PARP-1 activation promotes the expression of immediate early genes”*
- 8:50 Anthony A. Sauve, Weill Medical College, Cornell University (Oral 22)  
*“Plasmodium Falciparum Sir2 is a nicotinamide adenine dinucleotide dependent deacetylase with acetyllysine-dependent and acetyllysine-independent nicotinamide adenine dinucleotide glycohydrolase activities”*
- 9:10 John Denu, University of Wisconsin, Madison, Wisconsin, USA (Oral 23)  
*“NAD Metabolome Plenary Presentation: NAD<sup>+</sup>-dependent protein deacetylases (sirtuins)”*

**9:55 Break and poster discussions**

- 10:25 Michael Hottiger, University of Zürich, Zürich, Switzerland (Oral 23)  
*“Identification of lysines 36 and 37 of PARP-2 as targets for acetylation and auto-ADP- ribosylation”*
- 10:50 Mahesh Gupta, University of Chicago, Chicago, Illinois, USA (Oral 24)  
*“SIRT1 prevents cell death after genotoxic stress by deacetylating PARP-1 and suppressing its enzymatic activity”*
- 11:10 Shreevrat Goenka, Indiana Univ Purdue Univ Indianapolis, Indianapolis, Indiana, USA (Oral 25)  
*“The poly(ADP-ribosyl)ating activity of PARP14 participates in Stat6 mediated transcription”*
- 11:30 Odile Cohausz, University of Zürich, Zürich, Switzerland (Oral 26)  
*“Role of PARP-1 and PARP-2 in the expression of apoptosis-regulating genes”*

**11:50 to 1:30 Lunch and poster discussions**

## PARP 2008 Oral Session 5 - Co-Chairs: Nicola Curtin and Zdenek Hostomsky

**Theme: Therapeutic implications of poly(ADP-ribosyl)ation**

- 1:30 Nicola Curtin, Newcastle University, Newcastle upon Tyne, England, UK (Oral 27)  
*"The therapeutic potential of the clinically active PARP inhibitor AG014699 in homologous recombination defective tumors"*
- 1:55 Csaba Szabo, University of Medicine and Dentistry of New Jersey, Newark, New Jersey, USA (Oral 28)  
*"Surprises: The role of endogenous factors in the regulation of PARP activation in various pathophysiological conditions"*
- 2:20 Niall Martin, KuDOS Pharmaceuticals, Cambridge, England, United Kingdom (Oral 29)  
*"Identification and Pharmacology of the novel PARP inhibitor AZD2281 (KU-0059436)"*
- 2:40 Anthony Chalmers, University of Sussex, Brighton, England, United Kingdom (Oral 30)  
*"AZD2281 (KU-0059436) plus radiation as first line therapy for glioblastoma multiforme: rationale and proposed phase I clinical trial."*
- 3:00 Valeria Ossovskaya, BiPar Sciences, Inc., Brisbane, California, USA (Oral 31)  
*"PARP-1 overexpression in primary human cancers: A potential marker for PARP inhibition"*

**3:20 Break and poster discussions**

- 3:50 Cherrie Donawho, Abbott Laboratories, Abbott Park, Illinois, USA (Oral 32)  
*"The PARP inhibitor ABT-888 confers anti-tumor sensitivity in temozolomide-resistant xenograft tumors in vivo"*
- 4:10 Majid Ali, University of Manchester, Manchester, England, United Kingdom (Oral 33)  
*"Exploiting vascular effects of tricyclic PARP inhibitors as a novel mechanism of chemosensitization in vivo"*
- 4:30 Mohammad Shahidullah, University of Arizona, Tucson, Arizona, USA (Oral 34)  
*"PARP inhibition counteracts axonal atrophy and multiple functional and biochemical changes of advanced diabetic neuropathy"*
- 4:50 Susan Lees-Miller, University of Calgary, Calgary, Alberta, Canada (Oral 35)  
*"Inhibition of PARP-1 is cytotoxic in ATM-deficient Mantle Cell Lymphoma cells"*
- 5:10 Alberto Chiarugi, University of Florence, Florence, Italy (Oral 36)  
*"Selective PARP-2 inhibitors increase CA1 hippocampal damage in cultured slices exposed to oxygen and glucose deprivation"*
- 5:30 Elaine Jacobson, University of Arizona and Niadyne Development, Inc, Tucson, Arizona, USA (Oral 37)  
*"Development of myristyl nicotinate for skin cancer prevention: rationale, phase I results, and plans for phase 2"*

**5:50 Mariachi reception****6:50 Fiesta dinner**

Saturday, May 31

**6:30 to 8:00 Breakfast and poster discussions**

PARP 2008 Oral Session 6 - Co-Chairs: Masanao Miwa and Susan Smith

**Theme: Poly(ADP-ribosylation) and genomic integrity**

- 8:00 Susan Smith, New York University, New York, New York, USA (Oral 38)  
*“Removal of sister telomere cohesion by tankyrase 1 is essential for genomic stability”*
- 8:25 Nai-Wen Chi, University of California, San Diego, San Diego, California, USA (Oral 39)  
*“The extranuclear targeting and functions of tankyrase (PARP-5)”*
- 8:45 Masanao Miwa, Nagahama Institute of BioScience and Technology, Shiga, Japan (Oral 40)  
*“Inhibition of poly(ADP-ribosylation) induces chromosomal aneuploidy through abnormal centrosome amplification”*
- 9:05 Sascha Beneke, University of Konstanz, Konstanz, Germany (Oral 41)  
*“Telomere length regulation by PARP-1”*
- 9:25 Ralph Meyer, University of Pennsylvania, Kennett Square, Pennsylvania, USA (Oral 42)  
*“Abnormal sperm chromatin condensation in mice deficient in enzymes of the poly(ADP-ribose) pathway”*
- 9:45 Piera Quesada, University Federico II, Naples, Italy (Oral 43)  
*“PAR acceptor proteins in rat male germinal cells”*

**10:05 Break and poster discussions**

**Theme: Poly(ADP-ribosylation) and cellular responses to DNA damage (Part 2):**

- 10:35 Guy Poirier, Laval University, Quebec City, Quebec, Canada (Oral 44)  
*“Systems biology of PARPs and PARG”*
- 11:00 Ivan Ahel, Clare Hall Laboratories, London, England, United Kingdom (Oral 45)  
*“PBZ: A novel poly(ADP-ribose)-binding zinc finger motif in DNA repair/checkpoint proteins”*
- 11:20 Dana Loeser, University of Sussex, Brighton, England, United Kingdom (Oral 46)  
*“Interaction of PARP with proteins involved in double-strand break repair pathways”*

**11:40 to 1:30 Lunch**

PARP 2008 Oral Session 7 - Co-Chairs: Raphel Alvarez-Gonzalez and Guy Poirier

**Theme: Poly(ADP-ribosyl)ation and cellular responses to DNA damage (Part 2 continued):**

- 1:30 Girish Shah, Laval University, Quebec City, Quebec, Canada (Oral 47)  
*“Role of PARP-1 in the repair of UV-induced DNA lesions”*
- 1:50 Maria Sukhanova, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia (Oral 48)  
*“Role of PARP-1 in coordination of base excision repair pathways”*
- 2:10 Julie Horton, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, USA (Oral 49)  
*“Inhibition of PARP activity results in an ATR- and ATM-mediated S-phase cell cycle checkpoint”*
- 2:30 Ivana Scovassi, National Research Center, Pavia, Italy (Oral 50)  
*“PARP-1 recruitment to DNA repair sites is modulated by p21”*
- 3:10 Nathan Berger, Case Western Reserve University, Cleveland, Ohio, USA (Oral 51)  
*“Closing Comments”*
- 3:30 Adjournment**