Organized by:

Beijing Key Laboratory of DNA Damage Response (BKL-DDR), Capital Normal University (CNU), Beijing

Beijing Society for Cell Biology

Cell Signal Transduction Committee, Chinese Society for Cell Biology

Leibniz Institute for Age Research-Fritz Lipmann Institute (FLI), Jena, Germany

Hosted by:

Capital Normal University (CNU), Beijing

Sponsored by:

National Natural Science Foundation of China

Beijing Natural Science Foundation

Capital Normal University

Beijing Key Laboratory of DNA Damage Response

Boehringer Ingelheim Foundation, Germany

A-T Children's Project, USA

The EMBO

The Ataxia-Telangiectasia Society, UK

BrAshA-T, Australia

The Israeli Association for Fighting A-T

Association Espanola Familia Ataxia-Telangiectasia (AEFAT)

Beijing Society for Cell Biology

The Cell Signal Transduction Committee, Chinese Society for Cell Biology

The EMBO Press

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Dr. Zhao-Qi Wang, Leibniz Institute for Age Research / Fritz Lipmann Institute, Jena, Germany

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Pat Concannon, University of Florida, USA
Domenico Delia, Fondazione IRCCS Istituto Nazionale Tumori, Italy
Penny Jeggo, University of Sussex, UK
Martin Lavin, University of Queensland, Germany
Susan Lees-Miller, University of Calgary, Canada
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Speakers & Session Chairs:

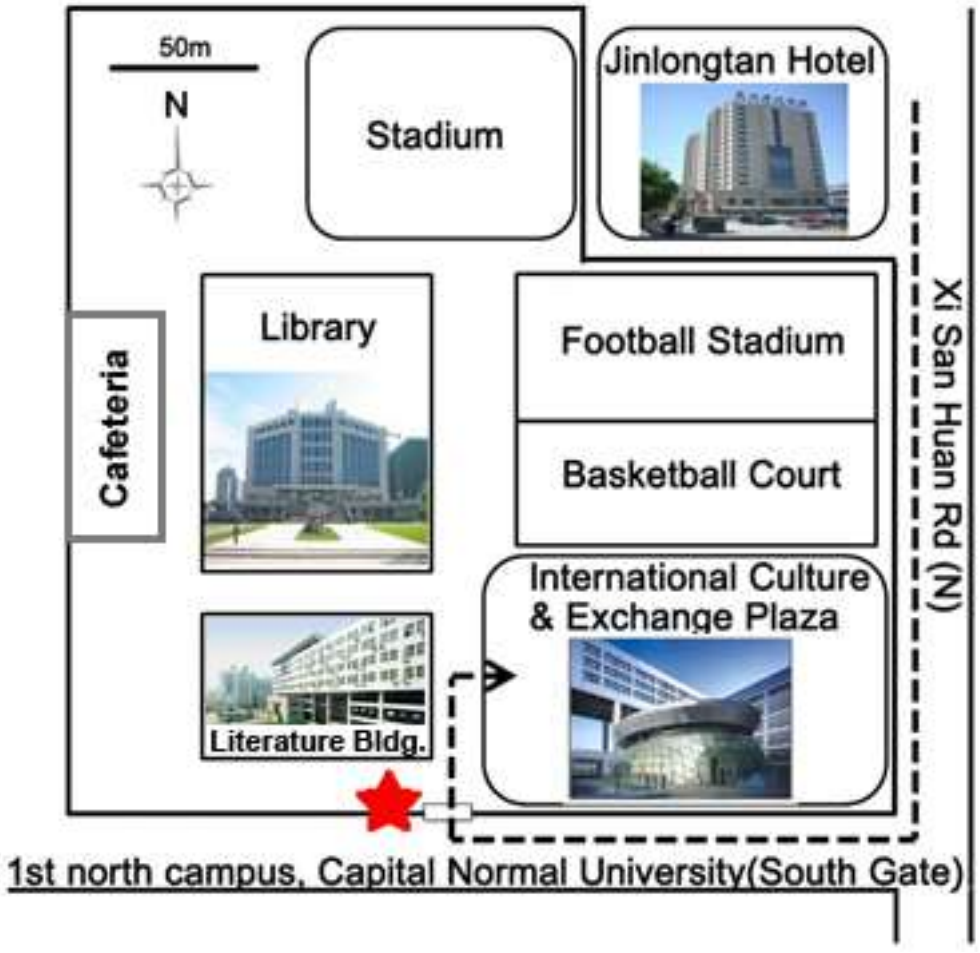
Ari Barzilai	Tel Aviv University, Israel
Axel Behrens	Francis Crick Institute, UK
Hagit Benyamini-Bigger	Tel Aviv University, Israel
Keith Caldecott	University of Sussex, UK
Junjie Chen	University of Texas MD Anderson Cancer Center, USA
Luciana Chessa	University La Sapienza, Italy
Yunje Cho	Pohang University of Science and Technology, Korea
Tom Crawford	Johns Hopkins Hospital, USA
Domenico Delia	Fondazione IRCCS Istituto Nazionale Tumori, Italy
Grigory Dianov	University of Oxford, UK
Li-Lin Du	National Institute of Biological Sciences, China
Marco Foiani	Fondazione Istituto FIRC di Oncologia Molecolare, Italy
Sherif El-Khamisy	University of Sheffield, UK
Richard Gatti	University of California at Los Angeles, USA
Caixia Guo	Beijing Institute of Genomics, CAS, China
Karl Herrup	Hong Kong University of Science and Technology, Hongkong
Jun Huang	Zhejiang University, China
Kum Kum Khanna	Berghofer Medical Research Institute, Australia
Jan Karlseder	Salk Institute for Biological Studies, USA
Michael Kastan	Duke University, USA
Yonghwan Kim	Sookmyung Women's University, Korea
Arne Klungland	Oslo university Hospital, Norway
Junya Kobayashi	Kyoto University, Japan
Daochun Kong	Peking University, USA
Susan Lees-Miller	University of Calgary, Canada
Penny Jeggo	University of Sussex, UK
Li Lan	University of Pittsburgh, USA
Martin Lavin	University of Queensland, Germany
Howard M. Lederman	Johns Hopkins Hospital, USA
Cong Liu	West China Second University Hospital, China
Markus Lobrich	Darmstadt University of Technology, Germany
Peter McKinnon	St Jude Children's Research Hospital, USA
Tej Pandita	Houston Methodist Research Institute, USA

Tanya Paull	HHMI and University of Texas at Austin, USA
Almudena Serrano-Benítez	Andalusian Molecular Biology and Regenerative Medicine Centre, Spain
Yossi Shiloh	Tel Aviv University, Israel
Tanja Stankovic	University of Birmingham, UK
John Tainer	Scripps Research Institute, USA
Masatoshi Takagi	Tokyo Medical and Dental University, Japan
Minoru Takata	Kyoto University, Japan
Malcolm Taylor	University of Birmingham, UK
Wei-Min Tong	Chinese Academy of Medical Sciences (CAMS) & Peking Union Medical College (PUMC), China
Zhao-Qi Wang	Leibniz Institute for Age Research-Fritz Lipmann Institute (FLI), Germany
Stephen West	Francis Crick Institute, UK
William Whitehouse	University of Nottingham, UK
Xiaohua Wu	Scripps Research Institute, USA
Dongyi Xu	Peking University, China
Xingzhi Xu	Capital Normal University, China
Yun-Gui Yang	Beijing Institute of Genomics, CAS, China
Xiaochun Yu	City of Hope National Medical Center, USA
Shan Zha	Columbia University, USA
Qimin Zhan	Chinese Academy of Medical Sciences (CAMS) & Peking Union Medical College (PUMC), China
Lee Zou	Harvard University, USA

Meeting venue:

The meeting venue is at the International Auditorium, the International Culture & Exchange Plaza (83 Xi San Huan Road (N)). It is within the1st north campus, Capital Normal University, about 100 meter south to the Jin Long Tan Hotel.

Directions between the Hotel and the auditorium:



Arrival:

Airport pickup assistance is available at the Beijing Capital International Airport on Oct. 11th, 2015. If you arrive in Beijing earlier or later than Oct. 11th, you may take a taxi from the airport to the hotel. It costs about RMB 150 Yuans.

If you take a taxi by your own, you may print out following information to present it to the taxi driver.

Please take me to **Jinlongtan Hotel**, 71 Xi San Huan Road (N), (Zizhu Bridge South, Haidian District, Beijing)! Tel: 88811188
请把我带到西三环北路 71 号金龙潭大酒店（紫竹桥南 200 米）
电话：88811188

Registration

Registration fees RMB 1200 Yuan or US$200 for graduate students and postdocs; RMB 1800 Yuan or US$300 for faculty members. The registration desk is open at the lobby of the Jinlongtan Hotel between 08:00-21:00 on Oct. 11th and at the meeting venue at 07:20-10:00 in the morning of Oct. 12th. If you arrive at the hotel earlier or later, please check in first and then contact Mr. Chunwei Song (mobile phone: 13811278677) for registration.

Technical issues of presentation:

Software: It is recommended that participants use Microsoft PowerPoint for presentation. Special needs should be arranged with the symposium secretariat in advance.

Presentation files: A PC-based presentation is fully supported by the technicians within the auditorium. If your file is prepared using a Mac, please make sure that it is compatible with a PC. It is recommended to pre-upload your presentation files to the auditorium computer before the session begins.

Timing for presentations: Each regular talk has 20 minutes for presentation and 5 minutes for discussion, and a short talk has 12 minutes for presentation and 3 minutes for discussion.

Weather conditions:

Fall clothing is recommended. The temperature in Beijing in October varies from 10-20^{o}C, with the mean temperature 15^{o}C. The humidity of this month is favorable withnot much rain.

Travels in Beijing:

Beijing is a city where the old cultural traditions and the modern civilization are well integrated. Each year millions of visitors and tourists come to Beijing to enjoy and feel its unique culture and scenery. Beijing is endowed with rare cultural heritage due to its long history over 3000 years.

The *Great Wall*, one of the world's wonders and the sole man-made architecture which can be seen from space, extends several hundred miles in Beijing. The poetic and picturesque *Summer Palace* is an example of the classic works of the feudal dynasty garden. The *Forbidden City* is the most splendid group of imperial palace buildings in the world. The *Temple of Heaven* is the place of worship for emperors of various dynasties of China as well as a splendid achievement of the Chinese ancient architectural art. The above four sites have been listed in the UNESCO-World Cultural Heritage. However, the best representatives for Beijing are the vanishing *Hutongs* (alleys) and square courtyards. Through hundreds of years, they have become the symbol of Beijing's life. *The Tian'anmen Square* is still brilliant today with cloverleaf junctions and skyscrapers everywhere, the old-time scenery and modern culture are combined to present a brand new visage of Beijing.

Optional tours for the afternoon of Oct. 13th are available for download from our meeting website (http://atw2015.csp.escience.cn/). You may make your own pick and pay at the registration desk on site.

Public transportation:

All suburbs and the central business districts in Beijing are served with the public transportation networks including the subway, buses, and taxi.

Subway (Metro): Beijing has 17 lines of subway (Metro). Its operation time is from 5:30 to 22:30. It costs between RMB 2 to 6 Yuan by distance of travel. If you go to the central area of Beijing, it is convenient, cheap, and fast to take a subway.

Buses: The bus networks cover every corner of the city. It costs about RMB 1-6 Yuan per time per person. However, the bus lines are complicated and it could be very crowded. It is NOT recommended that you choose this option.

Taxi: It is very convenient to use taxi service in Beijing. It costs 13 Yuans for the first 3 km and then adds in a rate of RMB 2.3 Yuan per km within the first 15 km, after that the rate will be 3.45 Yuan per kilometer. If you take a taxi from 23:00-05:00, the meter will automatically add 20% more charges. In addition, the passengers are requested to pay the toll and parking fee if there is such a fee.

Scientific Program

October 11th, Sunday, 2015

08:00-21:00 Registration
Lobby of Jinlongtan Hotel

16:00-18:00 Keynote speeches

CNU keynote lecture, chair: Yikun He
16:00-17:00
24 Tanya Paull, HHMI and University of Texas at Austin, USA
ATM activation and oxidative stress responses

BSCB keynote lecture, chair: Xingzhi Xu
17:00-18:00
28 Howard M. Lederman, Johns Hopkins Hospital, USA
Clinical Care of People with A-T: Two Decades of Progress

18:30
Warm-up reception
Hongxiang Hall (弘翔厅), Jinlongtan Hotel 3rd floor

October 12th, Monday, 2015

07:30-10:00 On-site registration
Lobby of the International Auditorium, International Culture & Exchange Plaza, North I Campus, CNU

08:30-08:45 Opening ceremony

EMBO Keynote Lecture, chair: Zhao-Qi Wang
08:45-9:15
32 Yosef Shiloh, EMBO member, Tel Aviv University, Israel
Ataxia-telangiectasia: attempting to understand the cerebellar phenotype

09:15-12:05 Neurodegeneration in A-T (I)
Chairs: Richard Gatti and Yun-Gui Yang

09:15-09:40
36 Peter McKinnon, St Jude Children's Research Hospital, USA
ATM Function in the Nervous System

9:40-10:05

38 **Keith Caldecott**, University of Sussex, UK
PARP1 and DNA single-strand break induced neurological disease

10:05-10:30
Group photo and tea break

10:30-10:55

40 **Ari Barzilai**, Tel Aviv University, Israel
The role of Atm in brain functionality

10:55-11:10

42* **Hagit Benyamini-Bigger**, Tel Aviv University, Israel
Ablation of the murine Nbs1 gene in astrocytes leads to astrocytic dysfunction but not cerebellar degeneration

11:10-11:25

44* **Masatoshi Takagi**, Tokyo Medical and Dental University, Japan
ATM regulates adipocyte differentiation and contributes to glucose homeostasis

11:25-11:50

46 **Penny Jeggo**, University of Sussex, UK
Adult neuronal stem cells sensitively activate ATM dependent apoptosis

11:50-12:05
Commercial presentation
Jiang Zhu, RAD Source Technologies
Application of X-ray irradiators in the DNA damage response research

12:05 Lunch
Boxed lunch at room 101, the Literature Building

13:00-15:00
Neurodegeneration in A-T (II)
Chairs: Peter McKinnon and Daochun Kong

13:00-13:25

50 **Zhao-Qi Wang**, Leibniz Institute for Age Research-Fritz Lipmann Institute (FLI), Germany
MRN in neurodelgeneration

13:25-13:50

52 Martin Lavin, University of Queensland, Australia
Rat model for ataxia telangiectasia

13:50-14:05

54* Wei-Min Tong, Chinese Academy of Medical Sciences (CAMS) & Peking Union Medical College (PUMC), Beijing, China
Functional Study of Protein Phosphatase 2ACa in Neuron

14:05-14:20

56* Shan Zha, Columbia University, USA
Kinase deficient missense mutations of ATM display higher oncogenic topoisomerase I inhibitors

14:20-14:35

58* Li Lan, University of Pittsburgh, USA
CSB dependent homologous recombination at active transcription sites

14:35-15:00

60 Karl Herrup, Hong Kong University of Science and Technology, HK
Back to the future: the role of ATM in late-onset neurodegenerative disease

15:00-15:15
Commercial presentation
Yao Teng, Bio-Rad Laboratories
Droplet Digital PCR: A Powerful Tool in Translational Medicine

15:15-16:45
Poster session I (odd-numbered posters)

16:45-18:15
Poster session II (even-numbered posters)

18:15 Welcome Dinner hosted by CNU
Langshanjianghai Restaurant (狼山江海饭店), 1st floor, the South Building of the International Culture & Exchange Plaza

October 13th, 2015

08:00-09:40
DNA damage response and cancer (I)

Chairs: Steve West and Li-Lin Du

08:00-08:25

66 **Jan Karlseder**, The Salk Institute for Biological Studies, USA
Telomere function during senescence and crisis

08:25-08:50

68 **Cong Liu**, West China Second University Hospital, Chengdu, China
A CRL4 ubiquitin ligase facilitates chromatin recruitment of Exo1 to promote long-range resection of double strand breaks

08:50-09:05

70* **Xiaochun Yu**, City of Hope National Medical Center, USA
Poly(ADP-ribose)-dependent signal transduction in DNA damage response

09:05-09:20

72* **Markus Lobrich**, Darmstadt University of Technology, Germany
CtIP-dependent canonical non-homologous end-joining repairs heterochromatic DNA double-strand breaks

09:20-09:45

74 **Jun Huang**, Zhejiang University, China
A novel helicase in DNA repair

09:45-10:05
Tea break

10:05-12:40
Therapy for A-T
Chairs: Penny Jeggo and Martin Lavin

10:05-10:30

78 **Tom Crawford**, Johns Hopkins Hospital, USA
Outcome Measures of Neurodegeneration in Ataxia Telangiectasia

10:30-10:55

80 **Luciana Chessa**, University La Sapienza, Italy
New insight in the steroid therapy of Ataxia Telangiectasia

10:55-11:20

82 **Domenico Delia**, Fondazione IRCCS Istituto Nazionale Tumori, Italy
Activity-dependent responses and transcriptional regulation in iPSC-

derived neurons from A-T patients

11:20-11:45

84 Malcolm Taylor, University of Birmingham, UK
The increasing range of clinical and cellular variation in ataxia telangiectasia

11:45-12:00

86* Sherif El-Khamisy, University of Sheffield, UK
Investigation of cancer cell resistance to topoisomerase targeting therapy

12:00-12:15

88* William Whitehouse, University of Nottingham, UK
Detecting regional brain glutathione with Magnetic Resonance Spectroscopy in children with and without A-T: preliminary results

12:15-12:40

90 Tanja Stankovic, University of Birmingham, UK
Targeting ATM loss in sporadic haematopoietic malignancies

12:40 Lunch
The cafeteria within the campus

Social Event (please sign up your choice of tour and pay at the registration)

Dinner at your choice on your own

October 14th, Wednesday, 2015

AT Children's Project Lecture, chair: Junjie Chen

08:00-08:30

94 Michael B. Kastan, Duke University, USA
ATM: Beyond DNA damage signaling

08:30-12:00
ATM-dependent DNA damage response
Chairs: Michael Kastan and Jun Huang

08:30-08:45

98* **Grigory Dianov**, University of Oxford, UK
Regulation of base excision repair by ATM protein

08:45-09:00

100* **Junya Kobayashi**, Kyoto University, Japan
Regulation of various DNA damage responses through complex formations of NBS1

09:00-09:15

102* **Minoru Takata**, Kyoto University, Japan
UBE2T/FANCT is a novel FA gene identified in Japanese Fanconi anemia patients

09:15-09:40

104 **Axel Behrens**, The Francis Crick Institute, UK
Mechanisms and functions of ATMIN-dependent ATM signaling

09:40-10:10
Tea break

10:10-10:35

106 **Susan Lees-Miller**, University of Calgary, Canada
New role for DNA-PKcs and ATM in mitosis

10:35-10:50

108* **Li-Lin Du**, National Institute of Biological Sciences, China
The PCNA-dependent E3 ubiquitin ligase Cul4–Ddb1–Cdt2 mediates S-phase degradation of the nuclease regulator Pxd1

10:50-11:05

110* **Almudena Serrano-Benítez**, Andalusian Molecular Biology and Regenerative Medicine Centre, Spain
Molecular role of ATM in blocked double-strand break repair

11:05-11:20

112* **Dongyi Xu**, Peking University, China
A mitosis-specific MRN complex promotes a mitotic signalling cascade to regulate spindle dynamics and chromosome segregation

11:20-11:35

114* **Yunje Cho**, Pohang University of Science and Technology, Korea
Structural basis for the DNA double strand break repair: end recognition

and resection by the Mre11/Rad50 complex

11:35-12:00

116 **John Tainer**, The Scripps Research Institute, USA
Mre11-Rad50-Nbs1 functional interactions with ATM and other partners

12:00 Lunch

Boxed lunch at room 101, the Literature Building

13:00-15:05

ATM-ATR coordinating DNA damage response

Chairs: Susan Lees-Miller and Cong Liu

13:00-13:25

120 **Lee Zou**, Harvard University, USA
Orchestrated Functions of ATM and ATR in DNA Repair

13:25-13:50

122 **Daochun Kong**, Peking University, China
The intra-S phase checkpoint regulates the replicative helicase CMG complex to stabilize stalled replication forks

13:50-14:15

124 **Xingzhi Xu**, Capital Normal University, China
Reversible ubiquitination in the replication stress response

14:15-14:30

126* **Yonghwan Kim**, Sookmyung Women's University, Korea
RNF126, a novel binding partner for RNF8, suppresses ionizing radiation induced 53BP1 foci formation

14:30-14:45

128* **Xiaohua Wu**, The Scripps Research Institute, USA
Prevention of genome instability at common fragile sites and inverted repeats

14:45-15:10

130 **Marco Fioani**, Fondazione Istituto FIRC di Oncologia Molecolare, Italy
Metabolic pathways influencing the DNA damage response: the impact of ATR and ATM

15:10-15:40
Tea break

15:40-17:40
DNA damage response and cancer (II)
Chairs: Yosef Shiloh and Lee Zou

15:40-16:05

134 **Qimin Zhan**, Chinese Academy of Medical Sciences (CAMS) & Peking Union Medical College (PUMC), Beijing, China
Cell cycle regulator Nlp in the control of mitotic progression and genomic stability

16:05-16:30

136 **Kum Kum Khanna**, Berghofer Medical Research Institute, Australia
Single-stranded DNA binding proteins and integrator complex at crossroads of transcription and maintenance of genomic stability

16:30-16:55

138 **Tej Pandita**, The Houston Methodist Research Institute, USA
Role of Chromatin structure in DNA DSB repair pathway choice

16:55-17:10

140* **Caixia Guo**, Beijing Institute of Genomics, CAS, China
FANCD2 and REV1 Cooperate in the Protection of Nascent DNA Strands in Response to Replication Stress

17:10-17:25

142* **Arne Klungland**, Oslo university Hospital, Norway
Dynamics of Methyl Modifications

17:25-17:50

144 **Junjie Chen**, University of Texas MD Anderson Cancer Center, USA
Protein-protein interaction network in DNA damage response and tumorigenesis

17:50-18:15

146 **Stephen C. West**, The Francis Crick Institute, UK
CDK-dependent formation of the SMX trinuclease complex

18:15-18:30
Poster awards and closing remarks

18:30

Farewell dinner

Langshanjianghai Restaurant (狼山江海饭店), 1st floor, the South Building of the International Culture & Exchange Plaza

*: short talks.

Poster abstracts:

P1

150 **Liwei An et al.** Towards Defining Chromatin Dynamics at DNA Double-Strand Breaks

P2

151 **Giulia Bastianello et al.** The interplay between ATM, ATR and cell mechanics

P3

152 **Sara Biagiotti et al.** Dexamethasone effects in Ataxia-Telangiectasia cell metabolism

P4

153 **Ofer Bihari et al.** Combining Atm and Wrn deficiencies in mice leads to cerebellar deterioration

P5

154 **Alexander Bishop & SonalTonapi.** Diabetes in the ATM mouse model

P6

155 **Simona Cavalieri et al.** Worldwide distribution of ATM locus haplotypes associated with Ataxia Telangiectasia mutations

P7

156 **Aifang CHENG et al.** The complementary role of ATM and ATR in synaptic vesicle dynamics

P8

157 **YongJun Choi et al.** A small molecule, 418, targets Tel2 to control ATAD5-mediated DNA damage response

P9

158 **Yili Feng et al.** Control of non-homologous end joining by histone H2AX

P10

159 **Magtouf H. Gatei & Martin F. Lavin.** Role of Rad50 in cell cycle progression during mitosis and cytokinesis

P11

160 **Sukhyun Kang et al.** Investigation of somatic tumor mutations and single-nucleotide polymorphisms(SNPs) in ATAD5

P12

161 **Youngran Kim et al.** Insights for DNA damage repair: DNA end recognition by the Mre11 nuclease dimer

P13

162 **Hu Li et al.** UBE2S, a Novel Substrate of AKT1, Associates with Ku70 and Regulates DNA Repair and Glioblastoma Multiforme Resistance to Chemoradiotherapy

P14

163 **Yang Liu et al.** DNA replicative helicase CMG complex is targeted by checkpoint kinase Cds1Chk2 to stabilize stalled replication forks in the fission yeast *S. pombe*

P15

164 **Lin-Yu Lu & Xiaochun Yu.** CHFR is important for the survival of male premeiotic germ cells

P16

165 **Michele Menotta et al.** Dexamethasone effects on blood gene expression in Ataxia Telangiectasia

P17

166 **Okui Michiyo et al.** MicroRNA-203 modulates olaparib sensitivity in medulloblastoma cells

P18

167 **Maria Piane et al.** Novel compound heterozygous mutations in a child with Ataxia-Telangiectasia showing unrelated cerebellar disorders

P19

168 **Barbara Pietrucha et al.** Serum amyloid A protein in patients with ataxia-telangiectasia: biomarker of disease progression? A preliminary study

P20

169 **Hazel Quek et al.** Neuroinflammation and microglial activation in a rat model of Ataxia Telangiectasia

P21

170 **Felix Raschke et al.** Magnetic Resonance Spectroscopy in the medial parietal grey matter shows no significant difference in glutathione between children with and without AT

P22

171 **Felix Raschke et al.** The CATNAP study: Children Ataxia Telangiectasia Neuro Assessment Project

P23

172 **Yoojeong Seo et al.** Self-assembly of RNF126 into inactive homodimers releases functionally active forms of RNF8 in response to DNA damage

P24

173 **Mukesh Kumar Sharma et al.** XRCC4 phosphorylation by DNA-PK in DNA double-strand break repair

P25

174 **Yingli Sun.** Dimer monomer transition and dimer re-formation play important role for ATM cellular function during DNA repair

P26

175 **Shunichi Takeda.** Differential roles of Mre11 nuclease in DNA damage responses in the budding yeast and mammalian cells

P27

176 **Efrat Tal et al.** Catalytically inactive Atm abrogates DSB repair more than Atm absence, without causing a marked neurological phenotype

P28

177 **Haibo Wang et al.** Aurora Kinase B dependent 53BP1 Phosphorylation Is Essential to Resolve Merotelic Attachments during Mitosis

P29

178 **Anika Weber et al.** Immunohistochemical analysis reveals frequent tumoral loss of ATM protein expression in lung and colorectal cancer

P30

179 **Anika M Weber et al.** The overlapping, yet independent, functions of ATM, ATR and p53 in coordinating cell cycle transition

P31

180 **Huimin Zhang & Daochun Kong.** Cdc24 is an essential component of the end resection machinery for the repair of dsDNA breaks through homologous recombination

P32

181 **Feng Zhang & Xiaochun Yu.** The OB-fold motif is a poly(ADP-ribose)-binding domain that mediates DNA damage response

P33

182 **Yi Zhou et al.** Inhibition of ATM Kinase Activity by Phosphorylation

P34

183 **Zhong-Wei Zhou et al.** Canonical and non-canonical function of NBS1 in neural development

P35

184 **Min Zhu et al.** USPx negatively regulates CLASPIN chromatin loading and CHK1 activation