APCC8 SCIENTIFIC PROGRAM

17.09.2023	
Registration	
U	September, 2023
15.00 – 18.00	Registration at the rectorate building of TNKU
Monday, 18th o	of September, 2023
MORNING	
08.00 - 10.00	Registration at the rectorate building of TNKU
10.00 – 11.00	Opening Talks
	Plenary lectures
	Chairpersons:
	Yasuhiko Mukai, Osaka Kyoiku University, Japan
	Kim Nam Soo, Kangwon National University, Korea
11.00 - 11.40	Who is the boss DNA or chromosomes? Rules governing evolution of
	structural and numerical chromosomal diversity during speciation
	Bikram Gill, Kansas State University, USA
11.40 – 12.20	DNA double-strand breaks fuel genome and karyotype evolution
	Ingo Schubert, IPK, Germany
	Group Photo
	Poster Session
13.00	Lunch at Faculty Cafeteria of TNKU
AFTERNOON	•
14.30 – 16.15	Session 1
	Karyotype evolution, taxonomy and comparative genomics
	Chairpersons:
	Ahmet Latif Tek, Niğde Ömer Halisdemir University, Turkey
	Maki Yamamoto, Kansai University, Japan
14.30 – 15.00	Chromosome evolution played multiple roles in speciation in nematodes
4500 4545	Kohta Yoshida, National Institute of Genetics, Japan.
15.00 – 15.15	Evolution of <i>Musaceae</i> through chromosome rearrangements: evidence
	from whole chromosome painting and long reads sequencing
15.15 – 15.30	Eva Hribova, Institute of Experimental Botany, Czech Republic. FISH chromosomal mapping of tandem repeats revealed species – specific
15.15 – 15.30	distribution pattern among Zoysia species
	Umavathi Saraswathi, Sahmyook University, Republic of Korea
15.30 – 15.45	Pan-centromere reveals widespread centromere repositioning in the
15.50 15.45	genome evolution of soybean
	Yang Liu, Chinese Academy of Sciences, Beijing, China.
15.45 – 16.00	Cytogenetics of a synthetic F1 hybrid (Aponogeton decaryi x A.
	satarensis)
	Shrirang Yadav, Shivaji University, India.
16.00 – 16.15	Identification of sainfoin (Onobrychis viciifolia) heterochromatin regions
	in towns of non-stiting DNA class and

in terms of repetitive DNA elements

Coffee Break / Poster Session

Sevim Döndü Kara Öztürk, Niğde Ömer Halisdemir University, Türkiye.

16.45 – 18.15	Session 2
	Karyotype evolution, taxonomy and comparative genomics
	Chairpersons:
	Nurul Faridi, Texas A&M University, USA
	Shrirang Yadav, Shivaji University, India
16.45 - 17.15	M-FISH and cytogenetic analysis on the gibbon and siamong iPSCs
	Hideyuki Tanabe, The Graduate University for Advanced Studies, Japan.
17.15 - 17.30	Chromosome synapsis and recombination in the great tits Parus major
	carrying a large and complex chromosome rearrangement
	Lyubov Malinovskaya, Novosibirsk State University, Novosibirsk, Russian
	Federation.
17.30 - 17.45	Genomic Characterization and evolutionary implications of centromeric
	satellite DNA in wild populations of macaques
	Worapong Singchat, Kasetsart University, Thailand.
17.45 - 18.00	Spaghetti connections: synaptonemal complex analysis for unraveling fish
	chromosomes
	Artem Lisachov, Kasetsart University, Thailand.
18.00 - 18.15	Comparative FISH analysis of tandem repeats revealed chromosomal
	dynamics in genus Senna
	Hong Thi Nguyen, Sahmyook University, Korea
19.00-22.00	Welcome Dinner at Yelken Restaurant
Tuesday, 19th	of September, 2023
MORNING	
09.00 - 10.45	Session 3
	Chromosome aberrations
	Chairpersons:
	Fangpu Han, Chinese Academy of Sciences, China
	Hakan Özkan, Çukurova University, Türkiye
09.00 - 09.30	DNA breaks: from precise repair and chromosome engineering to
	catastrophic chromosomal rearrangements
	Avraham Levy, Weizmann Institute of Science, Israel.
09.30 - 09.45	Mosaic runs of homozygosity in first trimester spontaneous abortions
	trace the karyotype self-correction events in early human development
	Igor Lebedev, Tomsk National Research Medical Center, Russian Fereration
09.45 - 10.00	Pleiotropic effects of DNA copy number variations in human ontogenesis
	Anna Kashevarova, Tomsk National Research Medical Center, Russian
	Fereration
10.00 - 10.15	Revealing the repertoire of common fragile sites peculiar to induced
	pluripotent stem cells
	Diana Zheglo, Research Centre for Medical Genetics, Russian Federation
10.15 - 10.30	Unraveling the role and mechanism of Aurora B/AIR-2 in preventing
	merotelic attachments
	Yue Wang, The University of Hong Kong, Hong Kong.
10.30 - 10.45	R-loops facilitate maize de novo centromere formation
	Qian Liu, Chinese Academy of Sciences, China.
	Coffee Break / Poster Session
11.15 – 13.00	Session 4
	Genome structure and epigenetics
	Chairpersons:
	Chan persons.
	Igor Lebedev, Tomsk National Research Medical Center, Russian Fereration

44.45.44.45	Manoj Lekhak, Shivaji University, India.
11.15 – 11.45	Flow cytogenetics facilitates plant genome analysis
11 45 10 15	Jaroslav Doležel, Institute of Experimental Botany, Czech Republic
11.45 – 12.15	Genomics-assisted molecular cytogenetics in the Araliaceae family
12.15 12.20	Hyun Hee Kim, Sahmyook University, Seoul, Korea
12.15 – 12.30	FISH characterization of ribosomal DNA and NOR-associated satellite's
	chromatin composition in chestnut (Castanea spp.)
	Nurul Faridi, USDA, Southern Institute of Forest Genetics, Texas A&M
12.30 – 12.45	University, USA The homology of Solanum verrucosum and S. commersonii chromosomes
12.30 – 12.43	revealed by meiosis
	Jaber Panahandeh, University of Tabriz, Islamic Republic of Iran
12.45 – 13.00	Variation in nuclear DNA content and rDNA patterns of the <i>Bromus</i>
12.45 – 13.00	catharticus Vahl. accessions
	Metin Tuna, Tekirdağ Namık Kemal University, Türkiye
13.00	Lunch at Faculty Cafeteria of TNKU
13.00	·
10.45	Poster Session
13.45	International Steering Committee Meeting (NKU senate room, in the
AECEDNICON	second floor of rectorate building)
AFTERNOON	g · 5
14.30 – 16.15	Session 5
	Genome structure and epigenetics
	Chairpersons:
	Robert Hasterok, University of Silesia, Poland
	Anna Kashevarova, Tomsk National Research Medical Center, Russian
14.20 17.00	Federation
14.30 - 15.00	Plasticity in centromere organization
15.00 – 15.30	Andreas Houben, IPK, Gatersleben, Germany. Aspects of genetics and epigentics in plant centromeres
15.00 – 15.50	Fangpu Han, Chinese Academy of Science, China.
15.30 – 15.45	Characterization of centromere-specific histone H3 (CENH3) and
13.30 – 13.43	centromeric repeat in wild diploid Glycine clandestina
	Hümeyra Yıldız Akkamış, Niğde Ömer Halisdemir University, Türkiye.
15.45 – 16.00	Non-B-form DNA is associated with centromere stability in newly-formed
13.43 - 10.00	polyploid wheat
	Congyang Yi, University of Chinese Academy of Sciences, China.
16.00 – 16.15	Unveiling the hidden legacy: rediscovering the GGATAT gene pool of
10000	wheat and its historical significance
	Hakan Özkan, Çukurova University, Türkiye
	Coffee Break / Poster Session
16.45 – 18.30	Session 6
	Sex chromosomes
	Chairpersons:
	Kim Hyun Hee, Sahmyook University, Korea.
	Shinji Kikuchi, Chiba University, Japan.
16.45 – 17.15	Sex chromosome turnover in the SRY-deficient mammal
-	Asato Kuroiwa, Hokkaido University, Japan
17.15 – 17.45	The diversity drivers: repeats and sex chromosome evolution in fish and
	snakes
	Kornsorn Srikulnath, Kasetsart University, Thailand.
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17.45 – 18.00	Eccentric SRY of the Okinawa spiny rat and its sex-determining ability
	revealed by in silico and in vitro analysis
	Puntakarn Urunanont, Hokkaido University, Japan.
18.00 - 18.15	Loss of the Y chromosome changes the configuration of the X inactivation
	center in the genus <i>Tokudaia</i>
	Luisa Matiz, Hokkaido University, Japan.
18.15 – 18.30	Unveiling the Y sex chromosome in siamese fighting fish: insights from
	male-linked loci and repetitive sequences on chromosome 9
	Thitipong Panthum, Kasetsart University, Thailand.
19.30	Dinner (Tekirdağ Meat Ball Evening) at Etoba Restaurant
	of September, 2023
MORNING	
09.00 - 10.30	Session 7
	Chromosome enginering
	Chair persons
	Andreas Houben, IPK, Germany
	Alla Krasikova, Saint-Petersburg State University, Russian Federation.
09.00 - 09.30	Nano-level insights into chromosome biology: high-resolution imaging
	with advanced microscopy
00.20 10.00	Nobuko Ohmido, Kobe University, Japan.
09.30 - 10.00	Application of molecular cytogenetic techniques on an emerging salt-
	tolerant cereal, <i>Tritipyrum</i> , from England to Turkey over the last three decades
	Hossein Shahsavand Hassani, Field Crops Central Research Enstitute, Türkiye
10.00 - 10.15	Improved CRISPR imaging techniques for target-specific DNA sequences
10.00 - 10.13	Bhanu Prakash Potlapalli, IPK, Gatersleben, Germany.
10.15 – 10.30	Aneusomaty in glyphosate resistant <i>Amaranthus palmeri</i> and its hybrids
10.12 10.20	with A. tuberculatus
	Yoonha Ju, Kansas State University, USA
	Coffee Break / Poster Session
11.00 – 12.30	Session 8
	B chromosome, genome structure, epigenetic and interphase cytogenetics
	Chairpersons:
	Asoto Kuroiwa, Hokkaido University, Japan
	Eva Hřibová, Institute of Experimental Botany Czech Republic.
11.00 – 11.30	Cytotype differentiation, geographic distribution and transcriptome
	analyses of Lilium amabile Palibin
	Nam-Soo Kim, Kangwon National University, Republic of Korea
11.30 – 11.45	To be or not to be expressed – looking for the nucleolar dominance
	mechanisms in the allotetraploid model grass, Brachypodium hybridum
	Natalia Borowska-Zuchowska, University of Silesia, Poland
11.45 - 12.00	The plant nucleolus – ubiquitous but mysterious
	Ewa Robaszkiewicz, University of Silesia, Poland
12.00 - 12.15	Variability in mutual chromosome positioning in 3D space of rice nuclei
	Alžběta Doležalová, Institute of Experimental Botany of the Czech Academy
	of Sciences, Czech Republic
12.15 – 12.30	CSR-1 RNA interference pathway restricts holocentromere protein
	CENP-A/HCP-3 localization in Caenorhabditis elegans
	Yan Yu Charmaine Wong, University of Hong Kong, Hong Kong

12.45	Lunch at Faculty Cafeteria of TNKU
12010	Poster session
AFTERNOON	
14.00 – 15.45	Session 9
	Other topics
	Session chairs:
	Nobuko Ohmido, Kobe University, Japan
	Natalia Borowska-Zuchowska, University of Silesia, Poland
14.00 - 14.30	+20 years of using <i>Brachypodium</i> as a model in plant molecular
	cytogenetics – current status and future prospects
	Robert Hasterok, University Of Silesia, Poland
14.30 - 14.45	Chromosome mimetics - pedagogy for chromosomes in class-room
	practice
	Yasuhiko Mukai, Osaka Kyoiku University, Japan
14.45 - 15.00	Chicken oocyte nucleus whole transcriptomic profile defines the pattern
	of maternal RNA genes transcribed by the lampbrush chromosomes
	Alla Krasikova, Saint-Petersburg State University, Russian Federation
15.00 - 15.15	Cytogenetics and interspecific hybridization in Crinum (Amaryllidaceae)
	Manoj Lekhak, Shivaji University, India.
15.15 – 15.30	An investigation ploidy levels in mixed-ploid Polygala vulgaris using high
	throughput DNA data
45.00 45.45	İlayda Gülmez, Hacettepe University, Türkiye
15.30 – 15.45	Tetraploid <i>Crinum</i> species: an importance source of Amaryllidaceae
	alkaloids
	Utkarsha Lekhak, Dr. Homi Bhabha State University, India
17.15 15.20	Coffee Break / Poster Session
16.15 – 17.30	Session 10
	Other topics
	Session chairs:
	Hwang Yoon-Jung, Sahmyook University, Korea,
16.15 – 16.30	Prof. Dr. Kornsorn Srikulnath, Kasetsart University, Bangkok, Thailand. Nuclear DNA content of Turkish Aethionema (Brassicaceae) taxa by flow
10.13 – 10.50	cytometry
	Kuddisi Ertuğrul, Selçuk University Türkiye
16.30 – 16.45	Karyotype diversity in Indian Aponogetonaceae
2000 2000	Rupali Chougule, Shivaji University, India
16.45 – 17.00	Variation of bimodal karyotype in Indian Dipcadi Medik. (Asparagaceae)
	Priya Eknath Shelke, Shivaji University, India
17.00 - 17.15	The end of a mythical chromosome story: karyomorphology of Crocus
	mathewii Kerndorff & Pasche
	Almıla Çiftçi, İstanbul University, Türkiye
17.15 - 17.30	Understanding the genetic control of adaptation and yield for Kazakh
	bread wheat through height controlling genes on 5A and 6A
	chromosomes
	Kanat Yermekbayev, Zhetysu University, Kazakhstan
	-Awards and closing
19.00	-Gala Dinner at Barbare
Thursday, 21 th	of September, 2023
8.30-21.00	Post Conference Tour To Istanbul