

# APPLIED BIOINFORMATICS IN AGRICULTURE AND MEDICINE

(with hands-on workshop on genomics and evolution of SARS-CoV-2)

July 19-23, 2020

Seminar Agenda

July 19 (Day 1) 8:00 AM – 10:00 AM (Nepal Standard Time)

Moderators: Dr. Dev Paudel, Dr. Himal Luitel

<b>Welcome:</b>	<b>Dr. Ishwari P. Kadariya</b> , <i>Director</i> Center for Biotechnology, AFU, Nepal
<b>Keynote Address:</b>	<b>Dr. Megha N. Parajulee</b> , <i>President, NAPA</i> <b>Dr. Sharada Thapaliya</b> , <i>Vice Chancellor, AFU</i>
<b>Invited Talks:</b>	
<b>Advances in genomics and bioinformatics</b>	<b>Dr. Ananta Acharya</b> , <i>Scientist</i> Corteva Agrisciences, IA, USA
<b>Bioinformatic applications in animal science and evolutionary studies</b>	<b>Dr. Sangeet Lamichhane</b> y, <i>Assistant Professor</i> Kent State University
<b>Application of bioinformatics in plant science</b>	<b>Dr. Radhika Bartaula</b> , <i>Postdoctoral Associate</i> USDA-ARS
<b>Application of bioinformatics in medicine</b>	<b>Sishir Subedi</b> , <i>Bioinformatician</i> Houston Methodist Hospital

July 20 (Day 2), 8:00 AM – 10:00 AM (Nepal Standard Time)

<b>Coronavirus genomics and evolution</b>	<b>Sishir Subedi</b> , <i>Houston Methodist Hospital</i> <b>Dr. Ananta Acharya</b> , <i>Corteva Agrisciences</i>
<b>Rice genomics and diversity in the Nepalese context</b>	<b>Dr. Saroj Parajuli</b> , <i>University of Florida</i> <b>Dr. Dev Paudel</b> , <i>University of Florida</i>

Hands-on Workshop Session

July 21-23 (Day 3-5), 8:00 AM – 10:00 AM (Nepal Standard Time)

<b>Instructors</b>	<b>Dr. Ananta Acharya, Sishir Subedi,</b> <b>Dr. Dev Paudel, Dr. Saroj Parajuli</b>
<b>Bioinformatics research needs</b> <b>Revisit molecular biology</b> <b>Introduction to Linux</b> <b>Genomics/Bioinformatics resources</b> <b>Preparation for hands on workshop</b>	Day 3, July 21
<b>Filetypes in genomics</b> <b>Workflows on genomics research</b> <b>Genome exploration and visualization</b>	Day 4, July 22
<b>Sequence alignment and variant calling</b> <b>Phylogenetic trees</b>	Day 5, July 23

For registration visit: [www.afu.edu.np](http://www.afu.edu.np)

Organized by:



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