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# Adeno-Associated Viral Vector in Gene Therapy and Genome Editing



Dr. Xavier GROSMAITRE  
(French Embassy in Thailand)



Dr. Xavier MARI  
(IRD representative in Thailand)



Dr. Arnaud MONTEIL  
(French National Center for Scientific  
Research & Mahidol University)



Dr. Rodolphe HAMEL  
(French National Research  
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Assoc. Prof. Dr.  
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Asst. Prof. Dr.  
Alisa Tubsuwan  
(Mahidol University)



Asst. Prof. Dr.  
Natee Jearawiriyapaisarn  
(Mahidol University)



**22 Apr 2024** (Lecture)

**23–25 Apr 2024** (Workshop)



**9.00 a.m. – 4.30 p.m.**



**Institute of Molecular Biosciences,  
Mahidol University**

## Registration options



Lecture Only  
600 THB  
(50 persons)



Lecture & Workshop  
5,000 THB  
(20 persons)

For more information please contact  
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## 22 Apr 2024 (Lecture)

- 8.30** Registration
- 9.00** Opening Remark & Photo Session
- 9.10 French Embassy's Scholarship Opportunities**  
Dr. Xavier GROSMAITRE  
Science and Higher Education Attache,  
French Embassy in Thailand
- 9.30 IRD structural training projects (PSF Programme)**  
Dr. Xavier MARI  
IRD Representative in Thailand
- 9.50 Overview of Adeno-Associated Viral Vector**  
Dr. Arnaud MONTEIL  
French National Center for Scientific Research  
& Mahidol University
- 10.20** Coffee Break
- 10.45 AAV analytics**  
Dr. Rodolphe HAMEL  
French National Research Institute  
for Sustainable Development & Mahidol University
- 11.30 Making AAV more efficient by circular mRNA**  
Assoc. Prof. Dr. Patompon WONGTRAKOONGATE  
Faculty of Science, Mahidol University
- 12.15** Lunch & Networking Session
- 14.00 AAV: application for myocardial ischemia/reperfusion injury**  
Assoc. Prof. Dr. Sarawut KUMPHUNE  
Biomedical Engineering Institute, Chiang Mai University
- 14.30** Coffee Break
- 14.45 CRISPR/Cas9 Genome Editing: New Hope for Beta Thalassemia/HbE Treatment**  
Asst. Prof. Dr. Alisa TUBSUWAN  
Institute of Molecular Biosciences, Mahidol University
- 15.15 AAV: Gene therapy for inherited retinal disease and DMD**  
Asst. Prof. Dr. Natee JEAWIRIYAPAISARN  
Institute of Molecular Biosciences, Mahidol University
- 15.45** Q&A session

## 23-25 Apr 2024 (Workshop)

Participants will learn and practice the following topics:

- Plasmid preparation & transformation
- Transfection
- AAV purification
- AAV analytics
- Transduction in a cell line