



# 2016 China-Japan-Korea Symposium on Analytical Chemistry Program

August 24-27, 2016

Wuyishan, China

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Wuyi University

## Co-organizer

Xiamen Huaxia University  
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## Logo 设计说明

### Logo Description



青山绿水猴灵秀，茶香更邀远朋来。

By the green mountains and stream dwell agile monkeys. The scent of tea attracts the friends from faraway.

Logo 颜色灵感来自于青山绿水的颜色，象征福建武夷山山清水秀，生态良好。

The logo color originates from the natural hue of green mountains and clear waters, symbolizing the picturesque scenery and friendly environment in Wuyi Mountains.

结构是清新活泼的茶叶形状，灵动性较强，凸显了在优美的环境下万物生长，生态和谐的生动景象。

The logo enjoys a vivifying and flexible structure similar to a tea leaf, which reveals a vivid scene of lush and green in ecological harmony.

2016 年，中国的猴年！青山绿水中灵动的猴子，寓意着中国武夷山的山清水秀，环境优美，也寓意着中日韩分析化学会议在 2016 年，在在充满茶香的武夷山召开。

2016 is the Year of Monkey in China. The lively monkeys are living in the green paradise, signifying the agreeable and beautiful scenery in Wuyi Mountain which is filled with tea aroma in the air, where the 2016 China-Japan-Korea Symposium on Analytical Chemistry is held.

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## Welcome Message

On behalf of the organizing committee, we welcome all of you to the 2016 China-Japan-Korea Symposium on Analytical Chemistry (CJK 2016), which will be held at Wuyi University, Wuyishan, China, from August 24<sup>th</sup> to 27<sup>th</sup>, 2016.

The CJK symposium on Analytical Chemistry is considered and designed to promote the interactions and communications among scientists working on a variety of aspects of analytical chemistry from China and Japan and Korea. In CJK 2016, the four-day program will include stimulating plenary and keynote presentations from the analytical scientists of three countries. In addition to stimulating multidisciplinary research and investigation, this symposium will be a strong promoter of international collaborations. We believe that this great event will provide all the participants with a high-quality and intellectually stimulating venue. The symposium has received 74 abstracts, including 4 plenary lectures, 22 keynote lectures, and 48 poster presentations, from well-known scientists to junior researchers and students as well.

We appreciate the support of Chinese Chemical Society for CJK 2016. We would also like to take this opportunity to express our sincere gratitude to all members of International Advisory Committee for their valuable advices and suggestions in various aspects, and to the organizer, Wuyi University, and co-organizers, Xiamen Huaxia University and Beijing Key Laboratory of Microanalytical Methods and Instrumentation for their excellent and painstaking work. We also thank the financial

supports from Shimadzu (China) Co., Ltd. Xiamen Standards Scientific Instrument Co., Ltd. as well as all the corporative sponsors.

We hope that through the symposium you will turn inspiration into fruitful investigations, make new friends, and renew old friendship. Finally, we do hope you will enjoy a wealth of cultural and natural area, Wuyi Mountain, and her wonderful tea in China, or even in the world.

Symposium Chairman:

Professor Xi CHEN

A handwritten signature in black ink, appearing to read 'Chen', with a long horizontal stroke extending to the right.

Secretary General:

Professor Chunhua MA

A handwritten signature in black ink, appearing to read 'Chunhua Ma', written in a cursive style.



# Committees

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Korea Food Research Institute

# Conference Guide

## Registration

The registration will all be done in the hall of Wuyi Villa (conference venue). The registration desk will be set at the lobby on the first floor from 13:00 to 22:00 on August 24. The payment could be done in cash or with credit card.

## Accommodation

You may check into your hotel room after the symposium registration. The hotel, Wuyi Villa, is located near Wuyigong. On August 24, there will be volunteers in the Wuyishan Airport, Wuyishan station (North) who will assist you in case of need. For the participants who arrive at Wuyishan before August 24, go directly to the hotel, please.

## Group photo

All participants are invited to take group photo at 08:30 on August 25 after opening ceremony. The electronic photo will be available to download afterwards.

## Symposium format

The scientific program of the conference will start in the morning of August 25. The conferences end in the noon of August 27. It consists of 4 plenary lectures (40 min), 17 invited lectures (20 min), 5 oral lectures (15 min), and 8 youth forum lectures (15 – 20 min).



## Notes for poster presentation

The poster size should be 80 cm (width) × 120 cm (height). The poster session will be arranged in the hall of Qingchuan. Please submit your poster to volunteers at registration desk when you register on August 24, or mount the poster by yourself at the coffee break time of August 25 according to your poster number arranged in the Program Book. Author should be present at the poster during Poster Session Time for discussion. Please remove your poster before the conference ends (August 27). All the posters will be judged for the competition of Best Poster Awards.

## Contacts

Secretariat Office	Dr. Chunhua Ma 13860091508
Registration	Ms. Qiuhong Yao 13506896791 ; Ms. Tingting Zhao 15080307464
Meeting Rooms	Mr. Jie Lin 18030169988
Hotel	Ms. Yiying Chen 18850200080
Transportation	Mr. Xingping Fu 15159962760    Luqiong Jiang 18094151686
Meal	Ms. Yan Huang 15280523568
Poster / Exhibition	Feiming Li 15859666642, Ms. Yiying Chen 18850200080

# General Information

## Conference Venue

The China-Japan-Korea Analytical Chemistry Symposium will be held in Wuyi Villa. Opening ceremony and plenary lectures will be held in the morning of August 25 in the Da Wang Ge (大王阁) international conference center. The other Sections will be held in the conference room in the Qingchuan building.

## Insurance

No responsibility can be assured for any kind of personal accidents, sickness, theft, or property damage suffered by conference participants. Participants are advised to arrange whatever insurance they consider it necessary.

## Weather

Wuyishan is a subtropical mountain city. The weather in Wuyishan in the late August is usually sunny to cloudy with sometimes shower and the temperature is between 22 to 35 °C. The average monthly precipitation is 152 mm. You are recommended to have summer dress and bring an umbrella with you.

## Transportation

For participants arriving at Wuyishan North Railway Station (北站) or Wuyishan Airport, the taxi fee is ca. 50 Chinese Yuan (RMB). In addition, the bus (Line 9) is available and recommended. From Railway East Station (东站), it is inconvenient to take a bus, but the Taxi is available and the fee is about 120 RMB. Volunteers will be arranged at the railway stations and airport guiding you to the hotel. *Friendly tips: the fee usually is paid according to negotiated price.*

If you have any problem, please call Prof. Chunhua Ma at 13860091508.

# General Schedule

## Program of 2016 China-Japan-Korea Symposium on Analytical Chemistry

August 24, 2016	All Day	Reception		
<b>August 25</b> <b>(8:00-11:50)</b> <b>(Dawang Ge</b> <b>International</b> <b>conference room)</b>	08:00-08:30	<b>Opening Ceremony</b> 1. Introduction of CJK 2016 2. Welcome speech from the President of Wuyi University 3. Messages from Chairman, Japanese and Korean delegates	<b>Chairpersons</b> Prof. Chunhua Ma	
	08:30-08:50	Photo	Prof. Lin Jinming/	
	08:50-09:30	PL01 XiurongYang	Prof. Uchiyama	
	09:30-10:10	PL02 Jaeho HA	Katsumi	
	10:10-10:30	<b>Coffee Break ( Poster Exhibition )</b>		
	10:30-11:10	PL03 Jinming Lin	Dr. Jaeho HA /	
	11:10-11:50	PL04 Kazuichi Hayakawa	Prof. Xi Chen	
<b>Multifunctional conference room (Qingchuan Building)</b>				



<b>August 25</b> (14:30-18:00)	14:30-14:50	K01 Yi Chen	<b>Chairpersons</b> Prof. Gongke Li /Prof. Kazuaki Ito
	14:50-15:10	K02 Kazuaki Ito	
	15:10-15:30	K03 Gongke Li	
	15:30-15:50	K04 Chengzhi Huang	
	<b>15:50-16:20</b>	<b>Coffee Break (Poster Exhibition)</b>	
	16:20-16:40	K04 Xi Chen	<b>Chairpersons</b> Prof. Chengzhi Huang Prof. Hiroshi Sato
	16:40-17:00	K06 Bifeng Liu	
	17:00-17:20	K07 Hiroshi Sato	
	17:20-17:40	K08 Hulin Zeng (Uchiyama)	
	<b>18:30-20:30</b>	<b>Banquet (Shimadzu Night)</b>	
<b>August 26</b> <b>08:30-11:40</b>	08:30-08:50	K09 Zilin Chen	<b>Chairpersons</b> Prof. Zilin Chen Prof. Na Li
	08:50-09:10	K10 Hailong Wu	
	09:10-09:30	K11 Huaizhi Kang	
	09:30-09:50	K12 Na Li	
	<b>09:50-10:20</b>	<b>Coffee Break (Poster Exhibition)</b>	
	10:20-10:40	K13 Yuki Hashi	<b>Chairpersons</b> Prof. Huaizhi Kang Prof. Dai Kato
	10:40-11:00	K14 Xuwei Chen	
	11:00-11:20	K15 Dai Kato	
	11:20-11:35	O01 Song Erqun	
	11:35-11:50	O02 Naoki Oguri	
14:30-14:50	K16 Joon-Myoung Song		<b>Chairpersons</b>

<b>14:30-16:00</b>	14:50-15:10	K17 Chunhua Ma	Prof. Joon-Myoung Song
	15:10-15:25	O03 Hongyan Zou	
	15:25-15:40	O04 Pengfei Gao	Prof. Chunhua Ma
	15:40-16:00	O05 Lin Li	
<b>August 26 16:00-18:00</b>		Poster Discussion/ Academic Meeting of Professor Jinming Lin	<b>Chairpersons</b> Prof. Jinming Lin
<b>Section for Young Scientists (Multifunctional conference room (Qingchuan Building))</b>			
<b>August 27 (8:30-11:20)</b>	08:30-08:50	YK01 Zhi Zhu	<b>Chairpersons</b> Prof. Naoki Oguri Prof. Xiaomei Chen
	08:50-09:10	YK02 Zhaowei Zhang	
	09:10-09:25	YO01 Feming Li	
	09:25-09:40	YO02 Tingting Zhao	
	09:40-09:55	YO03 Wei Xu	
	09:55-10:25	<b>Coffee Break</b>	
	10:25-10:45	YK03 Xiaomei Chen	<b>Chairpersons</b> Prof. Zhi Zhu
	10:45-11:05	YK04 Chunhua Lu	
	11:05-11:20	YO04 Zhiwei Lai	Prof. Chunhua Lu
	<b>August 27 (11:20-12:00)</b>	<b>Closing Ceremony (All Participants)</b>	

## Plenary Lectures

No.	Title	Authors
PL01	Construction and Analytical Application of Bio-Logical Gate Based on Optical Detection	Xiurong Yang
PL02	Rapid analysis of Ginsenosides and Spaoins in Ginseng Products Using u-HPLC Coupled with a Centrifugation Method	Tae-Gyu Nam, Jooghyuck Park, Jooyoung Lee, Yunje Kim and Jaeho Ha*
PL03	Generation of Droplets of Liquid for Mass Spectrometry	Jinming Lin*, Chen Luo, Yangdong Zhang, Fengming Chen, Katsumi Uchiyama
PL04	How to Identify Different Sources of PM <sub>2.5</sub> in East Asia?	Kazuichi Hayakawa*, Ning Tang and Akira Toriba

## Keynote Lectures

No.	Title	Authors
K01	Determination of pM Bioactive Molecules by Chemistry-assisted LC-MS	Yi Chen*
K02	Determination of Iodate and Iodide in Seawater by Ion Chromatography	Kazuaki Ito
K03	The Research of Sample Preparation Methods Based on Microporous Organic Polymers for Trace Analysis of Complicated Samples	Jialiang Pan, Chengjiang Zhang, Langjun Zhou, Yuling Hu, Zhuomin Zhang, Gongke Li*
K04	Applications of Single Nanoparticles-based Dark-field Microscopic Imaging Technique in Bioanalytical Chemistry	Chengzhi Huang*
K05	A Phytic Acid-Induced Super-Amphiphilic Multifunctional 3D Graphene-Based Foam	Xinhong Song, Yiyin Chen, Xi Chen*
K06	Microfluidic Chips towards Exosomes for Biomedical Applications	Jie Wang, Bifeng Liu*
K07	Development of the Measuring Method of Odor Compounds in Environmental Tobacco Smoke (ETS) and Its Application to Environment	Hiroshi Sato*, Miyako Adachi, Kanako Baba, Chihiro Usui, Yoshika Sekine, Miyuki Noguchi, Keiichi Arashidani
K08	Droplet Enhanced Fluorescence for Ultrasensitive Detection Using 2 Inkjet	Hulie Zeng, Daisuke Katagiri, Hizuru Nakajima, Katsumi Uchiyama



<b>K09</b>	Capillary Electrophoresis-Mass Spectrometry for Pharmaceutical Analysis	Zilin Chen*
<b>K10</b>	Aspects of Development of Smart Multiway Calibration Methods in Bioanalytical Chemistry	Hailong Wu*, Ruqin Yu
<b>K11</b>	Synthesis and Engineering of Nanoparticles for SERS Applications	Huaizhi Kang*, Jing Kang, Yongming Zeng, Qizhen Chen, Zhongqun Tian
<b>K12</b>	Analytical Methods Based on Automatic Counting of Gold Nanoparticles at the Single Particle Level with the Dark-Field Microscope	Tian Li, Xiao Xu, Xi Wu, Xiaojing Pei, Feng Liu, Na Li*
<b>K13</b>	Development of Effective Method Screening of Chiral Separation by A Single HPLC-SFC Switching System	Kenichiro Tanaka, Hidetoshi Terada, Takato Uchikata, Yohei Arao, Yasuhiro Funada, Yuki Hashi*
<b>K14</b>	Depletion of High Abundant histidine-rich Proteins in Human Plasma by Incorporating Octamolybdate into Metal-Organic Framework MIL-101(Cr)	Qing Chen, Mengmeng Wang, Xue Hu, Xuwei Chen*, Jian-Hua Wang
<b>K15</b>	Nanocarbon Film-based Electrodes for Foods/Biomolecules Sensing	Dai Kato*, Osamu Niwa
<b>K16</b>	Quantitative Determination of Anticancer Activity Using Total Internal Reflection Fluorescence-based Cellular Assay	Joon Myong Song*, Yumi Shim, Jieun Ki
<b>K17</b>	Determination of Polycyclic Aromatic Hydrocarbons (Pahs) in Tea Using Solid Phase Microextraction Coupled Gas Chromatography Mass Spectrometry	Chunhua Ma, Yiru Wang, Xi Chen*
<b>YK01</b>	Distance-based Microfluidic Devices for Quantitative Point-of-Care Testing	Zhi Zhu*, Zhichao Guan, Tian Tian, Xiaofeng Wei, Chaoyong Yang
<b>YK02</b>	Simultaneous Detection for Multiplexed Mycotoxins by Using Immunologic and LC-MS/MS in Food and Feed	Zhaowei Zhang*, Peiwu Li, Qi Zhang
<b>YK03</b>	Electrochemiluminescent Core-Shell Imprinted Nanoparticles for Specific Recognition and Direct Quantification of Melamine in Milk	Lian Sai, Zhiyong Huang, Xiaomei Chen*
<b>YK04</b>	Interlocked DNA Supramolecular Catenane Nanostructures	Chunhua Lu*, Huanghao Yang, Itamar Willner

## Oral Session

No.	Title	Authors
O01	One-Step Sensitive Detection of Pathogenic Bacteria by Fluorescent Vancomycin-Gold Nanoclusters and Aptamer-Gold Nanoparticles Dual Recognition Units Based FRET Biosensor	Mengqun Yu, Fei Fu, Linyao Li, Jing Li, Gan Li, Yang Song, Erqun Song*
O02	Development Of A Hybrid Pyrolyzer for GAS CHROMATOGRAPHY/MS/MS Crimination of the Illegal Drugs as an Application Example	Naoki Oguri*, Toshio Tsuchiya, Kaoru Enokido, and Akira Onishi
O03	Photo-activated 'click' Cycloaddition by Nonstoichiometric Copper Chalcogenides	Hongyan Zou and Cheng Zhi Huang*
O04	Plasmon-Induced Light Concentration for Scattering Imaging Visibility Enhancement	Pengfei Gao and Chengzhi Huang*
O05	Rapid Detection of Pesticide Residues in Tea Research Application	Lin Li*, Xinhua Tang, Xi Chen
YO01	Wavelength Shift Guided Fluorescent Probe for the Rapid, Selective and Quantitative Visual Detection of Chloride based on CsPbBr <sub>3</sub> Perovskite Quantum Dots Ion Exchange	Feiming Li, Xi Chen*
YO02	Multifunctional 3D N, P-doped Graphene Foam for Water Purification	Tingting Zhao, Yiyang Chen, Qihong Yao, Li Zhao*
YO03	An Ultrasensitive and Reversible Fluorescence Sensor of Humidity Using Perovskite CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub>	Wei Xu, Xi Chen*
YO04	The Real Time Detection of Lead, Cadmium, Copper And Manganese in Seawater	Zhiwei Lai, Xi Chen*

## Poster Session

No.	Title	Authors
P01	Simultaneous Detection for Multiplexed Mycotoxins by Using Immunological and LC-MS/MS in Food and Feed	Zhaowei Zhang*, Peiwu Li, Qi Zhang
P02	Wavelength Shift Guided Fluorescent Probe for the Rapid, Selective and Quantitative Visual Detection of Chloride based on CsPbBr <sub>3</sub> Perovskite Quantum Dots Ion Exchange	Feiming Li, Xi Chen*
P03	Multifunctional 3D N, P-doped Graphene Foam For Water Purification	Tingting Zhao, Yiyang Chen, Qihong Yao, Li Zhao*



<b>P04</b>	An Ultrasensitive and Reversible Fluorescence Sensor of Humidity Using Perovskite $\text{CH}_3\text{NH}_3\text{PbBr}_3$	Wei Xu, Xi Chen*
<b>P05</b>	The Real Time Detection of Lead, Cadmium, Copper and Manganese in Seawater	Zhiwei Lai, Xi Chen*
<b>P06</b>	Fluorescent Carbon Nanoparticle: Mimic of Hydrogen Peroxide Property for Chemiluminescence System	Xiangnan Dou, Katsumi Uchiyama, Jinming Lin*
<b>P07</b>	3D N, P-Codoped Carbon Network as an Ultrasensitive Electrochemical Sensor for the Detection of Dopamine	Zhixiong Cai, Xi Chen*
<b>P08</b>	Preparation of Certified Reference Materials for the Determination of Nutrients in Food	Tae-Gyu Nam*, Dongwon Seol, Jooyoung Lee, Jung-Hyuck Park, Byung-joo Kim and Jaeho Ha
<b>P09</b>	Imaging of Lysosomal pH Changes with a Novel Quinoline/Benzothiazole Probe	Li Fan, Bo Lin, Ming Nan, Shaomin Shuang, Chuan Dong*
<b>P10</b>	Preparation and Evaluation of Three-dimensional Multifunctional Graphene Solid-phase Microextraction Coating	Shujun Xia, Xinhong Song, Yiru Wang*, Xi Chen**
<b>P11</b>	Method Validation of As Speciation in Rice by LC-ICP-MS	Dongwon Seo*, Jisu Park, Tae-Gyu Nam, Jooyoung Lee, Jinbong Hwang, and Jaeho Ha
<b>P12</b>	Synthesizing Polymer Lines With a Microfluidic Mixing-Based Chemical Pen	Yong Zhang, Sifeng Mao, Hulin Zeng, Hizuru Nakajima, Katsumi Uchiyama*
<b>P13</b>	Single Cell Analysis using Drop-on-demand Inkjet Printing and Probe Electrospray Ionization Mass Spectrometry	Fengming Chen, Jinming Lin*
<b>P14</b>	Synthesis And Application of The Fluorescent Gold Nanocluster	Min Li, Yan Zhang*, Jingjing Jiang, Chuan Dong, Shaomin Shuang
<b>P15</b>	Concentrations of Atmospheric Radon-222 and Aerosol Components at Background Area of Korea in 2015	Jun-Oh Bu, Jung-Min Song <sup>1</sup> , Won-Hyung Kim <sup>1</sup> , Chang-Hee Kang*, S. Chambers <sup>2</sup>
<b>P16</b>	Variability of PM10 and PM2.5 Compositions in Relation to Atmospheric Phenomena at Gosan Site of Jeju Island, Korea during 2013 - 2015	Su-Hyun Shin, Jae-Yun Lee, Jung-Min Song, Jun-Oh Bu, Chang-Hee Kang*
<b>P17</b>	DNA-Templated Fluorescence Silver Clusters for Biomolecules Detection and Preliminary Mechanism	Jiaona Xu, Chunying Li, Chunying Wei*



Investigation		
P18	Inkjet Printing Based Assembly of Thermoresponsive Core-Shell Polymer Microcapsules for Controlled Drug Release	Daisuke Katagiri, Hulie Zeng, Hizuru Nakajima and Katsumi Uchiyama*
P19	One Step Microwave Synthesis of Fluorescent Carbon Quantum Dots for the Detection of Tetracycline	GangRen, HongyanMa *, YuechengZhang, LiliHuang
P20	A Label-free Fluorescence Strategy based on Dumbbell-like DNA Probe for the Different Human Cell Lines	Xuexu Chen, Yiru Wang*, Xi Chen*
P21	Investigation on Carbamazepine Polymorphic Transformation Kinetics with Attenuated Total Reflectance - Infrared Spectra and Multivariate Curve Resolution - Alternating Least Squares Analysis	Yuta Otsuka*, Akira Ito, Saki Matsumura, Masaki Takeuchi, Hideji Tanaka
P22	The Development of a Novel Solid-Phase Microextraction Coating Based on the High-Surface-Area Silica Nanospheres With Fibrous Morphology	QiuHong Yao, Xinhong Song, Tingting Zhao, Li Zhao*
P23	Rapid Molding of Functional Blood Vessel by Agarose Gel Template	Luyao Lin, Jinming Lin*
P24	O <sub>2</sub> Detection Based on Quenching Thermally Activated Delayed Fluorescence from 1,2,3,5-Tetrakis(carbazol-9-yl)-4,6-dicyanobenzene	Ryoichi Ishimatsu* Yuko Kirino Chihaya Adachi Koji Nakano Toshihiko Imato
P25	Tunable Hydrophobicity of Ionic Liquid Base Carbon Dots and The Imaging of The Carbon Dots/Curcumin Nanomedicine	Jun Lu, Xuwei Chen, Yang Shu*
P26	Determination of Sulfamerazine in River Water Using Deep Eutectic Solvent Modified Graphene with Pipette-Tip-Solid Phase Extraction	Tao Zhu*, Gao Fan Lingling Liu
P27	A Phosphorylethanolamine-Induced 3D Graphene-Based Foam For Water Purificatio	Yiyong Chen, Xi Chen*

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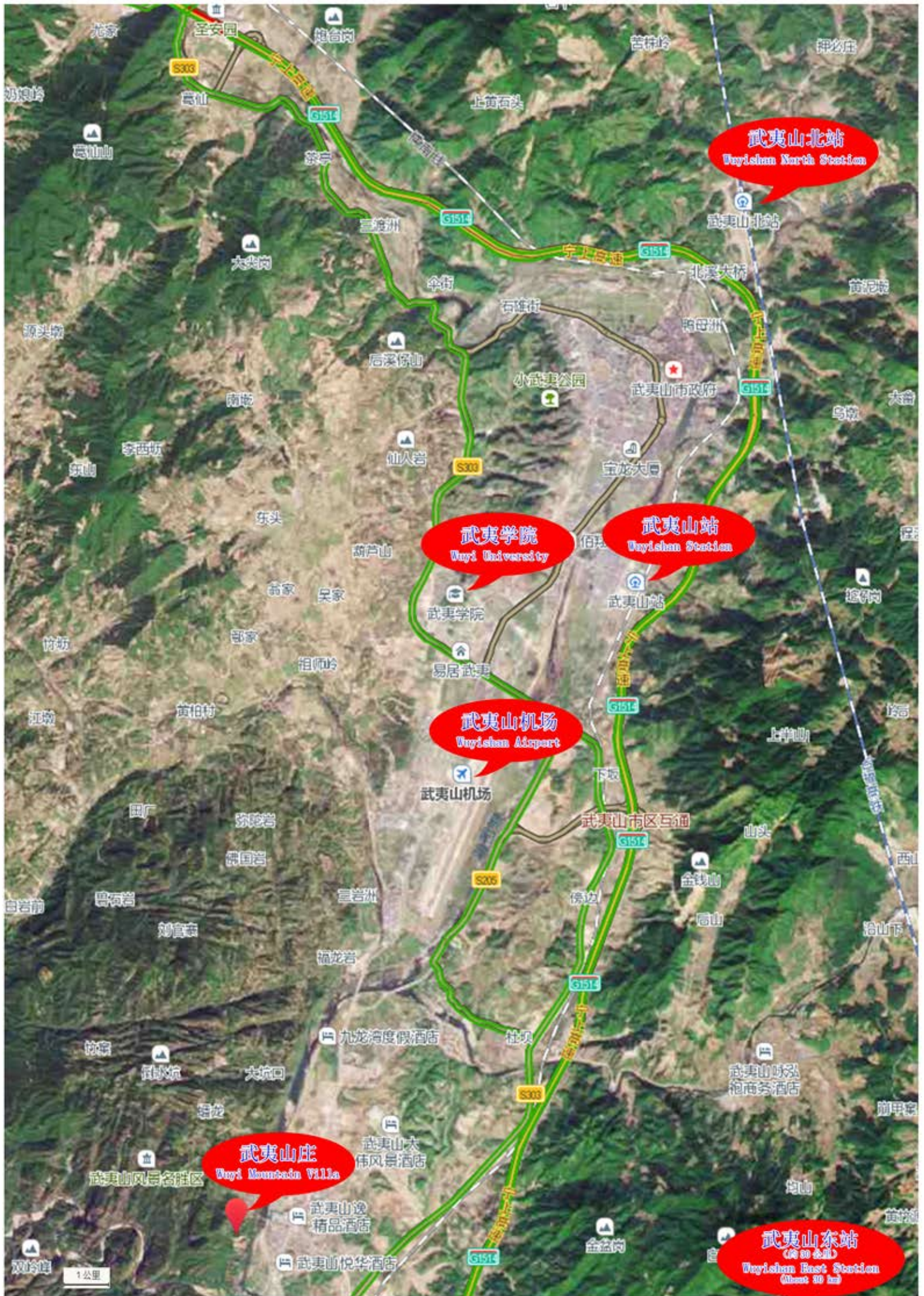




***NOTES***

A series of 20 horizontal dashed lines spanning the width of the page, intended for taking notes. The lines are evenly spaced and cover most of the vertical space of the page.





**武夷山北站**  
Wuyishan North Station

**武夷山站**  
Wuyishan Station

**武夷学院**  
Wuyi University

**武夷山机场**  
Wuyishan Airport

**武夷山庄**  
Wuyi Mountain Villa

**武夷山东站**  
Wuyishan East Station  
(约 30 公里)  
Wuyishan East Station  
(About 30 km)

1公里



Photo: Xi CHEN

Graphic designer: Yichao Pan

