#### The second Announcement

# The 5th International Conference on Applied Biotechnology & EB 1.0: The First International Conference on Engineering Biology

December 4-5<sup>th</sup>, 2020, Tianjin, P.R.China http://www.icab2020.org/

The International Conference on Applied Biotechnology which had been run successfully in 2012 \, 2014 \, 2016 and 2018, will welcome its 5<sup>th</sup> opening on December 4-5<sup>th</sup>, 2020 in Tianjin University of Science & Technology Tianjin (TUST), Tianjin, P.R.China. We have had more than 600 experts and scholars from U.S.America, the United Kingdom, Germany, Japan, and other countries and regions all around the world attending the conferences and 150 plus famous scientists sharing their academic reports. The successful convening of the international conferences has played an important role in promoting scientific and technological cooperation and healthy development in the fields of applied biotechnology domestically and globally.

Engineering biology, that is using engineering principles to simulate or redesign genes, molecules and cells, to develop new products, processes and systems, which will bring revolutionary effects in the fields of chemical materials, medical health, agricultural food, sustainable energy, ecological environment, etc.. Engineering biology is promoting the development of a new generation of biotechnology, leading the direction of industrial technological innovation and catalyzing the emerging of biological economy.

To meet the urgent needs of the development of applied biotechnology and accelerate the growth of engineering biology, the 5<sup>th</sup> International Conference on Applied Biotechnology & EB 1.0: The First International Conference on Engineering Biology will be held on 4-5<sup>th</sup> December, 2020 in Tianjin. Acknowledged scholars and entrepreneurs will be invited to share the most up-to-date research and development in industrial fields, a high-level platform will be provided for scientists and scholars of domestic and overseas universities, research institutes and enterprises to exchange ideas. The conference will, definitely, accelerate the cooperation among production, teaching and research and transformation from scientific research to industrial products and advance the qualified development of the biological technology and industry.

#### I Organizers:

#### **Sponsors:**

- Chinese Society of Biotechnology
- ♦ Tianjin University of Science & Technology
- ♦ Tianjin Institute of Industrial Biotechnology, Chinese Academy of Sciences (TIB, CAS)

#### **Organizers:**

- ♦ Key Laboratory of Industrial Fermentation Microbiology, Ministry of Education; Tianjin Key Laboratory of Industry Microbiology
- ♦ National Engineering Laboratory for Industrial Enzymes
- ♦ CAS Key Laboratory for Microbial Systems Biotechnology
- ❖ International Science and Technology Cooperation Base of Food Nutrition/Safety and Medicinal Chemistry

- ♦ National and Local United Engineering Lab of Metabolic Control Fermentation Technology
- ♦ Tianjin Engineering Research Center of Microbial Metabolism and Fermentation Process Control
- ♦ Tianjin Society for Microbiology
- ♦ College of Biotechnology, TUST
- ♦ Tianjin Key Laboratory for Industrial Biosystems
- ♦ Bioprocess Engineering and Tianjin Engineering Center for Biocatalytic Technology

#### **Supporting agencies:**

- ♦ CanSinoBIO
- ♦ Beckman

#### **II Dates and Venues:**

Conference date: December 4-5th, 2020

#### **III Major Topics:**

Invited topics from fundamental sciences to applied technology on biology, including (but are not restricted to) the following areas:

- Biological Data Science and Engineering
- Gene Synthesis and Assembly Engineering
- Molecular Biology and Cell Engineering
- Intelligent Biological Process Engineering

#### **IV Conference Form:**

♦ Online

# V Conference Agenda:

Date	Time	Agenda	Channel
December 4 <sup>th</sup>	09:0011:40	Opening Ceremony Keynote Lectures	

December 4 <sup>th</sup>	13:3016:55	3:3016:55  Parallel sessions	Session 1: Molecular Biology and Cell Engineering	
			Session 2: Biological  Data Science and  Engineering	
December		Parallel	Session 3: Intelligent Biological Process Engineering	
5 <sup>th</sup>	8:3011:40	sessions	Session 4: Gene Synthesis and Assembly Engineering	

# **VI Conference Timetable**

# 4<sup>th</sup> December (Friday)

Time	Title	Speaker	Institution					
(Beijing)	Title	Speaker	Institution					
	Opening Ceremony							
00.00.00.20	1. Introduction							
09:0009:30	2. Welcome speech							
	3. Photograph							
	Keynote Lectures							
00.20 10.00		Prof.	University of Illinois at					
09:3010:00	Synthetic Biology Twenty Years On	Huimin Zhao	Urbana-Champaign					
	Synthetic Pyruvate-responsive Genetic Circuits for							
10:0010:30	Dynamically Fine-tuning Metabolic Pathways in	Prof.	Jiangnan University					
	Bacillus subtilis	Guocheng Du						
10:3010:40	Break	,						
	Engineering <i>Rhodococcus ruber</i> as an Efficient	D. C	Tsinghua University					
10:4011:10	Whole-cell Biocatalyst for Biomanufacturing	Prof.						
	Industry	Huimin Yu						
11:1011:40	Engineering Bi-directional Microbial Electron	Prof.	Tianjin University					
11.1011.40	Pathways for Energy and Chemicals Production	Hao Song	Transfir University					
	Parallel sessions 1: Molecular Biology and	Cell Engineering	g					
			Shanghai Institute of					
13:3014:00	Molecular therapeutic targets and industrial	Prof.	Nutrition and Health,					
13.3014.00	application of fatty liver disease	Yu Li	Chinese Academy of					
			Sciences					
		Asso. Prof.						
14:0014:30	Enzyme catalyst engineering	Jun Ge	Tsinghua University					
			South China Sea					
14:3015:00	Design principles of bacterial signal transduction	Prof.	Institute of					
	network	Beile Gao	Oceanology, Chinese					
			Academy of Sciences					

		Senior	_ ,				
15:0015:15	Beckman workstation synthetic biology solutions	Engineer	Beckman				
		Zijian Zhang					
15:1515:25 Break							
	Ctt		Tianjin University of				
15:2515:55	Structural base and biosynthesis of hydroxyl amino	Prof.	Science and				
	acids	Huimin Qin	Technology				
		Prof.	Rheinisch-Westfälische				
15:5516:25	How to recombine beneficial substitutions? Lessons	Ulrich	Technische Hochschule				
	learned from CompassR analysis of a lipase	Schwaneberg	Aachen University				
l	Reprogramming cellular metabolism enhances	Docent	Chalmers University of				
16:2516:55	yeast's fitness on xylose	Yun Chen	Technology				
	Parallel session 2: Biological Data Science	and Engineering	g				
		Prof.	N				
13:3014:00	Some (surprisingly) simple hacks to get more out of	Wilson Wen	Nanyang Technological				
	your data	Bin Goh	University				
	WDCM: Global Data Cooperation on Microbial	Prof. Juncai Ma	Institute of				
14:0014:30			Microbiology, Chinese				
	Resources	Julical Ivia	Academy of Sciences				
	Data drivan da nava dasign of protain structure and	Prof.	University of Science				
14:3015:00	Data-driven de novo design of protein structure and		and Technology of				
	sequence	Haiyan Liu	China				
15:0015:10	Break						
	Modeling Enzymatic Enantioselectivity using	Researcher					
15:1015:40	Quantum Chemical Methodology	Xiang Sheng	Stockholm University				
			Tianjin Institute of				
			Industrial				
15:4016:10	Integration of various bio-data in metabolic network	Prof.	Biotechnology,				
15.70 10.10	model analysis	Hongwu Ma	Chinese Academy of				
			Sciences				
		Prof.	Sciences				
16:1016:40	High quality analysis of metagenomes	Igor	University of				
		Goryanin	Edinburgh				
			ı				

# 5<sup>th</sup> December (Saturday)

iber (Saturday)								
Title	Speaker	Institution						
Parallel sessions 3: Intelligent Biological Process Engineering								
Construction of synthetic microbial consortium for	Prof.	Nanjing Tech						
biorefinery	Min Jiang	University						
		Dalian Institute of						
Engineering methyltrophic yeasts for	Prof.	Chemical Physics,						
overproduction of fatty acids	Yongjin Zhou	Chinese Academy of Sciences						
Engineering yeast stress tolerance for efficient	Prof.	G1 1 : T: T						
biorefinery: zinc responsive genes play an important	Xinqing	Shanghai Jiao Tong University						
role	Zhao	Oniversity						
Break								
Bioconversion of methane for the production of	Prof.	Xi'an Jiaotong						
bio-based chemical and fuel by methanotrophs	Qiang Fei	University						
	Asso. Prof. Jianye Xia	East China						
Bioprocess optimization, scaling up techniques and perspective on future intelligent biomanufacturing		University of						
		Science and						
		Technology						
	D. C	Tianjin University						
Microbial biosensing based on CRISPR-Cas system		of Science and						
	Long Ma	Technology						
Parallel session 4: Gene Synthesis and Asso	embly Enginee	ering						
Mining and engineering of microbial secondary	Prof.							
metabolite pathways	Youming Zhang	Shandong University						
		Shenzhen Institutes of						
Decode and Renrogram a Genome	Prof.	Advanced Technology,						
Decode and Reprogram a Genome	Junbiao Dai	Chinese Academy of						
		Sciences						
Metagenomics facilitates the development of	Dr.	University of						
biotechnology	Linxing Chen	California						
	Parallel sessions 3: Intelligent Biological Pro Construction of synthetic microbial consortium for biorefinery  Engineering methyltrophic yeasts for overproduction of fatty acids  Engineering yeast stress tolerance for efficient biorefinery: zinc responsive genes play an important role  Break  Bioconversion of methane for the production of bio-based chemical and fuel by methanotrophs  Bioprocess optimization, scaling up techniques and perspective on future intelligent biomanufacturing  Microbial biosensing based on CRISPR-Cas system  Parallel session 4: Gene Synthesis and Asse Mining and engineering of microbial secondary metabolite pathways  Decode and Reprogram a Genome  Metagenomics facilitates the development of	Parallel sessions 3: Intelligent Biological Process Engineering Construction of synthetic microbial consortium for biorefinery  Engineering methyltrophic yeasts for overproduction of fatty acids  Engineering yeast stress tolerance for efficient biorefinery: zinc responsive genes play an important role  Break  Bioconversion of methane for the production of bio-based chemical and fuel by methanotrophs  Bioprocess optimization, scaling up techniques and perspective on future intelligent biomanufacturing  Microbial biosensing based on CRISPR-Cas system  Mining and engineering of microbial secondary metabolite pathways  Prof. Youming Zhang  Decode and Reprogram a Genome  Metagenomics facilitates the development of biotechnology  Metagenomics facilitates the development of biotechnology  Mining and engineering of microbial secondary prof. Junbiao Dai						

10:00-10:10	Break		
10:10-10:40	The application of next-generation sequencing techniques in synthetic biology	Director of  R&D  Ye Chen	GENEWIZ Suzhou, China
10:40-11:10	The glycosylase base editor (GBE) approach enables specific C-to-A and C-to-G genomic conversion	Prof. Changhao Bi	Tianjin Institute of Industrial Biotechnology, Chinese Academy of Sciences
11:10-11:40	Gene synthesis and cloning	Senior scientist Qingwei Meng	Nanjing Genscript Biotechnology Co., Ltd.

# **Future Star Forum (TUST)**

Date: 5<sup>th</sup> December (Saturday)

**Venue:** Room 206 2<sup>nd</sup> Floor, No.2 Building, TUST

No.	Time (Beijing)	Title	Speaker
1	08:308:45	Overview of research on metabolic mechanism of higher alcohols	Huan Wang
2	8:459:00	Three-dimensional ordered magnetic macroporous metal organic frameworks as a platform enzyme immobilization	Yuxiao Feng
3	9:009:15	Preparation of superhydrophobic membrane based on bacterial cellulose for oil-water separation	Fengping Wang
4	9:159:30	Study on the autolysis mechanism of <i>Bacillus</i> amyloidotica and its allogenic protein expression	Jinfang Zhang
5	9:309:45	Construction and application of <i>Aspergillus</i> niger engineered strain with high yield of itaconic acid	Yaqi Wang
6	9:4510:00	WINE YEAST	Ruirui Li
7	10:0010:15	Optimization of fermentation process for L-leucine production by C. glutamicum	Yufu Zhang
8	10:1510:30	Research progress of agilawood: China's precious medicinal materials and spices	Jing Liu

9	10:3010:45	Predication of the novel protein from de novo	Vanon Wang
9	10.3010.43	transcriptome assembly	Kenan Wang
10	10:4511:00	Genes of <i>Grifola frondosa</i> related to polysaccharide synthesis and its effect on polysaccharide yield	Jian Li
11	11:0011:15	Structural characterization, physiological activity and synthetic mechanism of extracellular polysaccharides from a strain of <i>Aureobasidium pullulans</i>	Yuting Liao
12	11:1511:30	Research progress on silicone in diatom cell wall	Zhuo Chen
13	11:30-11:45	Growth and development in Aspergillus spp	Jie Li
14	11:4512:00	Functional characteristics and research progress of melanoidins	Zhisong Wang
		Break	
15	13:3013:45	Gradient regulation of acetate ester production in Saccharomyces cerevisiae during Chinese Baijiu fermentation	Danyao Cui
16	13:4514:00	Remove monosaccharide by <i>Komagataeibacter xylinus</i> and its effects on antioxidant capacity and flavor profile of Chinese wolfberry juice	Tianzhen Zhang
17	14:0014:15	Genetic marker technology short tandem repeats (STR)	Xuying Qin
18	14:1514:30	Study on the functional mechanism of anti-alcohol stress and alcohol metabolism of probiotics	Jiali Wang
19	14:3014:45	Design, synthesis and optimization of efficient expression element in <i>Aspergillus niger</i>	Zhen Wei
20	14:4515:00	Study on the probiotics protect against Fructooligosaccharides relative diarrhea	Kaiyang Chen
21	15:0015:15	Determination of D, L-serine in rats by HPLC	Fuyue Liu
22	15:1515:30	Tolcapone derivative (Tol-D) inhibits Aβ42 fibrillogenesis, ameliorates Aβ42 aggregate-induced cytotoxicity and cognitive impairment	Beibei Chen
23	15:3015:45	Identification and analysis of temperature sensitive promoters of <i>Lactobacillus</i> plantarum	Chenghui Zhou
24	15:4516:00	Effect of salvage synthesis pathway on oxidative stress in colon cancer cells	Xinyi Liu

#### **VII Registration**

❖ Registration entrance: the conference is supported online by AEIC academic center support, please scan the AEIC registration QR code.



♦ Fee: Free for online conferences.

#### **VIII Contact Information**

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The 5th International Conference on Applied Biotechnology & EB 1.0: The First International

Conference on Progniceding Biology committee C

# 第五届应用生物技术国际会议暨工程生物学 1.0 国际会议

(The 5th International Conference on Applied Biotechnology & EB 1.0: The First International Conference on Engineering Biology)

### 第二轮通知

2020年12月4-5日,天津,中国

http://www.icab2020.org/

应用生物技术国际会议(The International Conference on Applied Biotechnology)已于2012年、2014年、2016年及2018年成功举办四届,来自中国、美国、英国、德国、日本等国家和地区的600余位专家学者参会,150余位知名科学家分别在大会上做了精彩的学术报告,为我国乃至世界应用生物技术领域科技合作和健康发展起到很好的推动作用。

工程生物学(Engineering Biology)是指采用工程化原理,模拟或重新设计基因、分子与细胞,开发新的产品、过程和系统,将为化工材料、医药健康、农业食品、可持续能源、生态环境等领域带来颠覆性影响,正在促进新一代生物技术发展,引领产业技术变革方向,催生生物经济时代到来。

为满足应用生物技术领域发展的迫切需要、推动工程生物学快速发展和学术交流,第五届应用生物技术国际会议暨工程生物学 1.0 国际会议将于 2020 年 12 月 4-5 日在天津召开。会议将邀请知名专家学者和企业家分享工程生物学领域最新科研进展和产业发展动态,为国内外相关高校、科研机构的专家、学者及企业人员提供高水平交流平台,促进产学研合作和成果转化,推动我国生物技术和产业高质量发展。

#### 一、会议主办、承办单位

主办单位:中国生物工程学会 天津科技大学

中国科学院天津工业生物技术研究所

承办单位:工业发酵微生物教育部/天津市重点实验室

工业酶国家工程实验室

中国科学院系统微生物工程重点实验室

食品营养与安全和药物化学国际科技合作基地

代谢控制发酵技术国家地方联合工程实验室

天津市微生物代谢与发酵过程控制技术工程中心

天津市微生物学会

天津科技大学生物工程学院

天津市工业生物系统与过程工程重点实验室

天津市生物催化技术工程中心

赞助单位:康希诺生物股份公司 贝克曼库尔特商贸(中国)有限公司

# 二、会议时间

会议时间: 2020年12月4-5日

# 三、会议主要议题

● 生物数据科学与工程

● 基因合成与组装工程

● 生物分子与细胞工程

● 智能生物过程工程

# 四、会议形式

● 线上会议

# 五、会议日程

时间			日程安排	直播通道
12月4日	上午		大会开幕 大会主旨报告	
	下午	平行会场	生物分子与细胞工程主题报告	

12月4日			生物数据科学与工程主题报告	
		平行	智能生物过程工程主题报告	
12月5日	上午		基因合成与组装工程主题报告	

# 六、大会报告安排

日期	时间(北京)	报告题目	报告人	单位		
	09:0009:30	开幕式				
	09:3010:00	Synthetic Biology Twenty Years On	Huimin Zhao 教授	美国伊利诺伊大学 香槟分校		
	10:0010:30	Synthetic Ppyruvate-responsive Genetic Circuits for Dynamically Fine-Tuning Metabolic Pathways in  Bacillus subtilis	堵国成 教授	江南大学		
	10:3010:40	茶点	從			
	10:4011:10	Engineering <i>Rhodococcus ruber</i> as an Efficient Whole-cell Biocatalyst for Biomanufacturing Industry	于慧敏 教授	清华大学		
12 月 4	11:1011:40	Engineering Bi-directional Microbial Electron Pathways for Energy and Chemicals Production	宋浩教授	天津大学		
日	生物分子与细胞工程主题报告					
	13:3014:00	Molecular therapeutic targets and industrial application of fatty liver disease	李于研究员	中国科学院院上海营养与健康研究所		
	14:0014:30	Enzyme catalyst engineering	戈钧 副教授	清华大学		
	14:3015:00	Design principles of bacterial signal transduction network	高贝乐研究员	中国科学院南海海 洋研究所		
	15:0015:15	Beckman workstation synthetic biology solutions	张子剑 高级工程师	贝克曼库尔特商贸 (中国)有限公司		
	15:1515:25	茶唇	 饮			
	15:2515:55	Structural base and biosynthesis of hydroxyl amino acids	秦慧民教授	天津科技大学		

	15:5516:25	How to recombine beneficial substitutions? Lessons learned from CompassR analysis of a lipase	Ulrich Schwaneberg 教授	德国亚琛工业大学		
	16:2516:55	Reprogramming cellular metabolism enhances yeast's fitness on xylose	陈云副教授	瑞典查尔姆斯理工 大学		
		生物数据科学与工程主	题报告			
	13:3014:00	Some (surprisingly) simple hacks to get more out of your data	Wilson Wen Bin Goh 教授	新加坡南洋理工大 学		
12 月	14:0014:30	WDCM: Global Data Cooperation on Microbial Resources	马俊才研究员	中国科学院微生物研究所		
4 日	14:3015:00	Data-driven de novo design of protein structure and sequence	刘海燕教授	中国科学技术大学		
	15:0015:10	0 茶歇				
	15:1015:40	Modeling enzymatic enantioselectivity using quantum chemical methodology	盛翔研究员	瑞典斯德哥尔摩大 学		
	15:4016:10	Integration of various bio-data in metabolic network model analysis	马红武研究员	中国科学院天津工业生物技术研究所		
	16:1016:40	High quality analysis of metagenomes	Igor Goryanin 教授	英国爱丁堡大学		
		智能生物过程工程主题	· [报告			
12 月 5 日	8:309:00	8:309:00 Construction of synthetic microbial consortium for biorefinery		南京工业大学		
	9:009:30	Engineering methyltrophic yeasts for overproduction of fatty acids	周雍进 研究员	中国科学院大连化 学物理研究所		
	9:3010:00	Engineering yeast stress tolerance for efficient biorefinery: zinc responsive genes play an important role	赵心清 教授	上海交通大学		

	10:0010:10	茶歇				
12月5日	10:1010:40	Bioconversion of methane for the production of bio-based chemical and fuel by methanotrophs	费强 教授	西安交通大学		
	10:4011:10	Bioprocess optimization, scaling up techniques and perspective on future intelligent biomanufacturing	夏建业副教授	华东理工大学		
	11:1011:40	Microbial biosensing based on CRISPR-Cas system	马龙教授	天津科技大学		
	基因合成与组装工程主题报告					
	8:309:00	Mining and engineering of microbial secondary metabolite pathways	张友明 教授	山东大学		
	9:009:30	Decode and reprogram a genome	戴俊彪 研究员	中国科学院深圳先进技术研究院		
	9:3010:00	Metagenomics facilitates the development of biotechnology	陈林兴 博士	美国加州大学伯克 利分校		
	10:0010:10	茶歇				
	10:1010:40	The application of next-generation sequencing techniques in synthetic biology	陈业 研发总监	苏州金唯智生物科 技有限公司		
	10:4011:10	The glycosylase base editor (GBE) approach enables specific C-to-A and C-to-G genomic conversion	毕昌昊 研究员	中国科学院天津工业生物技术研究所		
	11:1011:40	Gene synthesis and cloning	孟庆伟 资深 科学家	南京金斯瑞生物科 技有限公司		

# "未来之星"硕博论坛(天津科技大学)

日期: 12月5日

地点:泰达校区中院2号楼206会议室

序号	时间(北京)	报告题目	报告人
1	08:308:45	Overview of research on metabolic mechanism of higher alcohols	王欢
2	8:459:00	Three-dimensional ordered magnetic macroporous metal organic frameworks as a platform enzyme immobilization	冯玉晓
3	9:009:15	Preparation of superhydrophobic membrane based on bacterial cellulose for oil-water separation	王凤萍
4	9:159:30	Study on the autolysis mechanism of <i>Bacillus</i> amyloidotica and its allogenic protein expression	张金方
5	9:309:45	Construction and application of <i>Aspergillus</i> niger engineered strain with high yield of itaconic acid	王亚奇
6	9:4510:00	WINE YEAST	李蕊蕊
7	10:0010:15	Optimization of fermentation process for L-leucine production by C. <i>glutamicum</i>	张玉富
8	10:1510:30	Research progress of agilawood: China's precious medicinal materials and spices	刘静
9	10:3010:45	Predication of the novel protein from de novo transcriptome assembly	王舸楠
10	10:4511:00	Genes of <i>Grifola frondosa</i> related to polysaccharide synthesis and its effect on polysaccharide yield	李健
11	11:0011:15	Structural characterization, physiological activity and synthetic mechanism of extracellular polysaccharides from a strain of <i>Aureobasidium pullulans</i>	廖钰婷
12	11:1511:30	Research progress on silicone in diatom cell wall	陈卓
13	11:30-11:45	Growth and development in Aspergillus spp	李洁
14	11:4512:00	Functional characteristics and research progress of melanoidins	王知松
		茶歇	

15	13:3013:45	Gradient regulation of acetate ester production in Saccharomyces cerevisiae during Chinese Baijiu fermentation	崔丹瑶
16	13:4514:00	Remove monosaccharide by <i>Komagataeibacter xylinus</i> and its effects on antioxidant capacity and flavor profile of Chinese wolfberry juice	张天震
17	14:0014:15	Genetic marker technology short tandem repeats (STR)	秦旭颖
18	14:1514:30	Study on the functional mechanism of anti-alcohol stress and alcohol metabolism of probiotics	王佳丽
19	14:3014:45	Design, synthesis and optimization of efficient expression element in <i>Aspergillus niger</i>	魏镇
20	14:4515:00	Study on the probiotics protect against Fructooligosaccharides relative diarrhea	陈开阳
21	15:0015:15	Determination of D, L-serine in rats by HPLC	刘富锐
22	15:1515:30	Tolcapone derivative (Tol-D) inhibits Aβ42 fibrillogenesis, ameliorates Aβ42 aggregate-induced cytotoxicity and cognitive impairment	陈贝贝
23	15:3015:45	Identification and analysis of temperature sensitive promoters of <i>Lactobacillus</i> plantarum	周成慧
24	15:4516:00	Effect of salvage synthesis pathway on oxidative stress in colon cancer cells	刘心怡

# 七、报名注意事项

1.报名入口:会议由艾思学术支持在线报名,扫码艾思报名系统。



2.本次会议不收取会议费,欢迎大家在线交流学习。

# 八、会务组联系方式

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