如何快速了解一个领域

罗昭锋

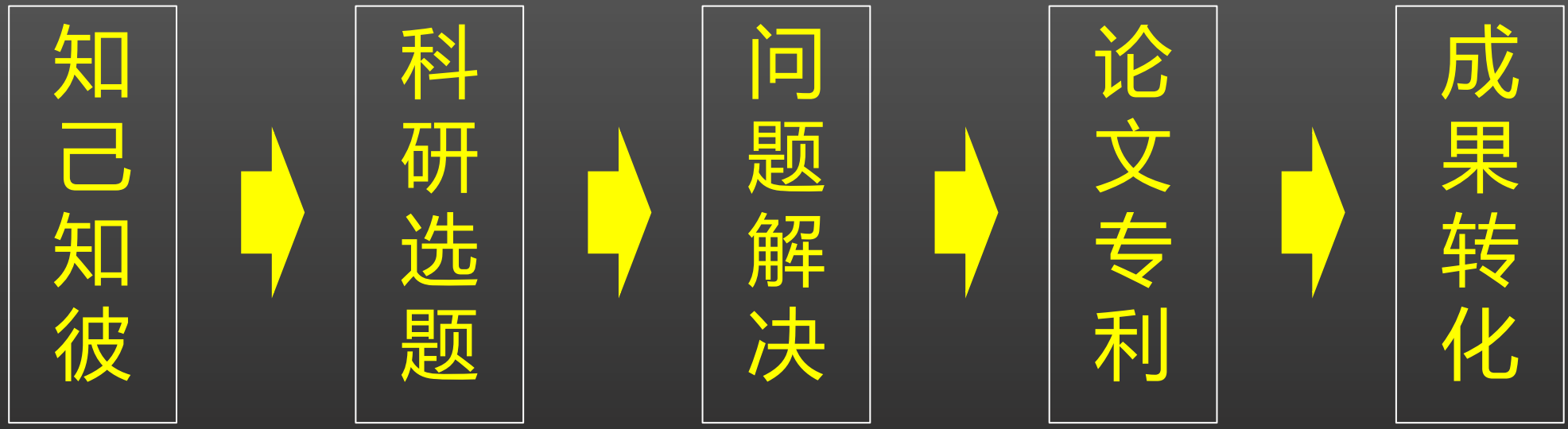
Part 1：引言及指导原则

报告目标受众	研究生 科研人员
望解决的问题	这个方向值得做吗？ 这个方向现状如何？

做一个再烂的课题一样耗费你的宝贵生命，

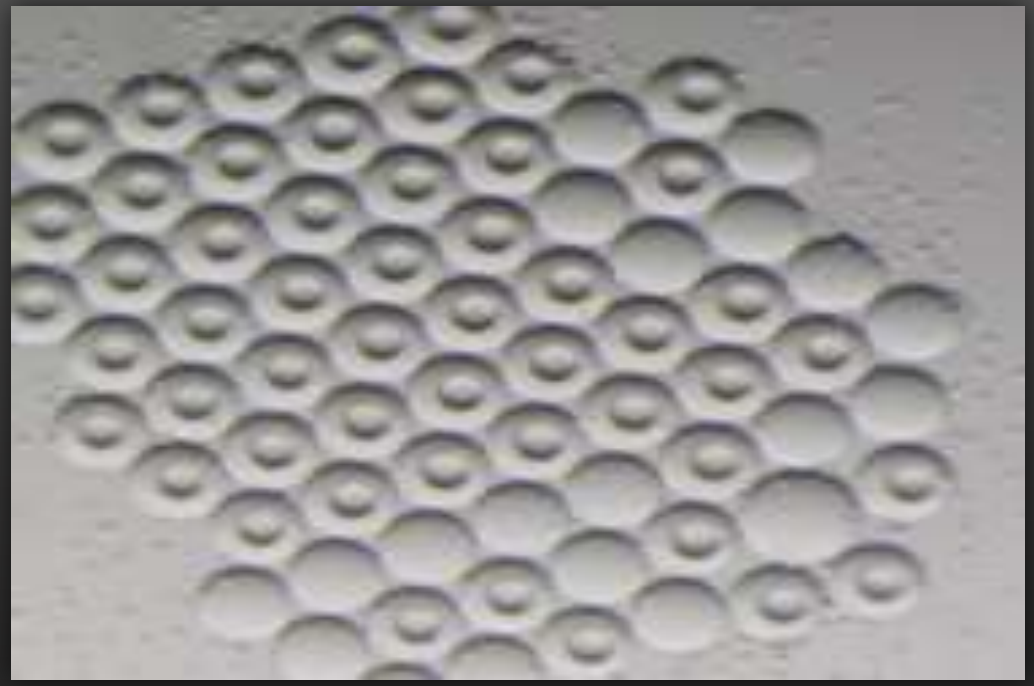
为什么不做一个有价值的课题呢！

科研流程



最高效的解决问题的方法是借鉴

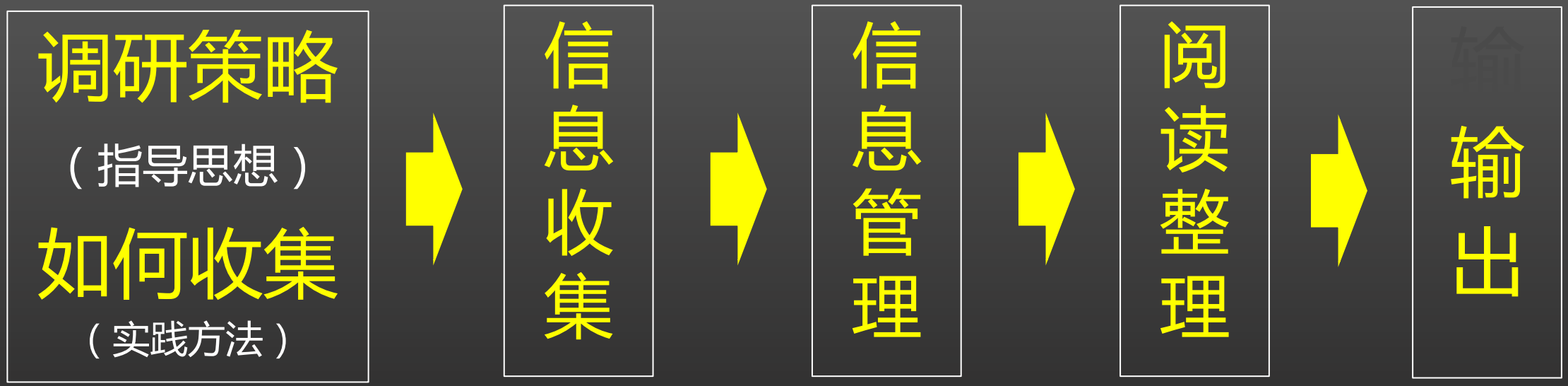
近期的实例-如何实现微米级液滴的包裹



液滴直径 100um（头发丝直径）

- 找文献
- 找专利
- **找专家**

如何才能知己知彼-文献调研的流程



流程化

是提升各项工作效率的指导原则

指导思想

名师出高徒

快速了解一个领域—>逆向思考

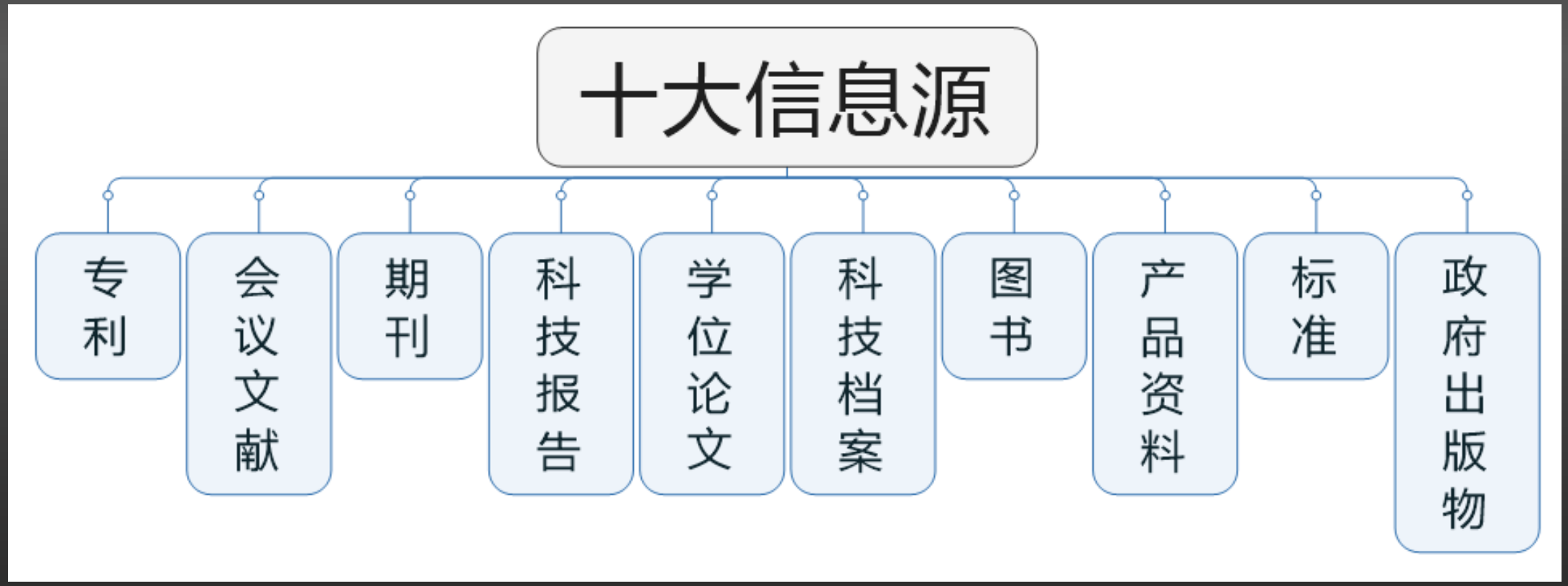
- 哪些信息能够代表这个领域的前沿？
- 哪些文章、资料最有价值？
- 如何才能找到这个领域的“名师”？
- **快速找到最有价值的信息，才是快速了解一个领域的根本。**

Part1：引言部分小结

- 名师出高徒：找到最有价值的信息（牛人、牛文等）
- 流程化的思想
- 最高效的解决问题的方法是**借鉴**

Part 2：哪里可以找到最有价值的信息

2.1 科研信息源



申请指南、网页、新闻

哪里有能代表前沿的信息？

- 精准搜索：申请指南、科技报告、新闻报道
- 查找牛人：数据库分析、学术会议
- 查找牛文：高被引、热点文章、引文分析（同行推荐）
- 自动追踪：RSS自动追踪文献 、科技新闻

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"量子调控与量子信息"重点专项2018年度项目申报指南- 项目公告...

"量子调控与量子信息"重点专项2017年度项目申报指南_百度文库

2016年10月27日 - 附件3 "量子调控与量子信息"重点专项 2017 年度项目申报指南"量子调控与量子信息"重点专项的总体目标是瞄准我国未来信息技术和社会发展的重大需...

https://wenku.baidu.com/view/6... - 百度快照

量子调控与量子信息重点专项2016年度项目申报指南 - 道客巴巴

2016年8月18日 - 附件目录"量子调控与量子信息"重点专项016年度项目申报指南..."量子调控与量子信息"重点专项016年度项目申报指南编制专家名单...

www.doc88.com/p-292523... - 百度快照

"量子调控与量子信息"重点专项2017年度项目申报指南

2016年10月19日 - "量子调控与量子信息"重点专项的总体目标是瞄准我国未来信息技术和社会发展的重大需求,围绕量子调控与量子 信息领域的重大科学问题和瓶颈技术,开展...

www.wotao.com/displ..... - 百度快照

"量子调控与量子信息"重点专项2016年度项目申报指南(..._百度文库

2016年2月16日 - "量子调控与量子信息"重点专项2016年度项目申报指南(指南编制专家名单、形式审查条件要求)_计算机硬件及网络_IT/计算机_专业资料。附件 2 "量子调...

https://wenku.baidu.com/view/a... - 百度快照

"量子调控与量子信息"重点专项项目申报指南(指南编制专家名单...

知名学者 展开

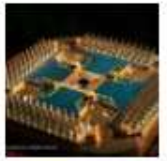

潘建伟


杜江峰


张首晟

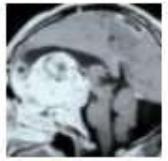

姚期智

相关术语 展开


量子计算机


量子自杀


空间不连续理论


量子意识

物理学类书籍 展开

量子计算基


量子信息物


量子系统中

高等量子力

“量子调控与量子信息”重点专项2018年度项目申报指南

2017-05-23 16:52:34 来源: 锐科技

量子调控与量子信息

“量子调控与量子信息”重点专项2018年度项目申报指南

1、关联电子体系

1.1拓扑超导等关联体系的量子态

研究内容：拓扑超导等新型关联体系的新奇量子态与相变，及量子态的多场调控。

考核指标：发现一种新的拓扑超导材料；利用界面工程构筑二维拓扑超导等新型关联体系；建立极端条件下硬

项目公告栏

科技部基础研究司资源配置与管理司关于开展科技基础性工作专项项目验收工作的通知

关于发布非可控性炎症恶性转化的调控网络及其分子机制重大研究计划2017年度项目指南的通告

关于发布血管稳态与重构的调控机制重大研究计划2017年度项目指南的通告

器官衰老与器官退行性变化的机制重大研究计划2017年度项目指南

项目图解

“量子调控与量子信息”重点专项2017年度项目申报指南 +形式审查条件+指南编制专家名单

2017-04-13 14:33:40 来源: 锐动源 作者:

量子调控与量子信息 | 重点专项 | 项目申报指南

“量子调控与量子信息”重点专项 2017年度项目申报指南

“量子调控与量子信息”重点专项的总体目标是瞄准我国未来信息技术和社会发展的重大需求，围绕量子调控与量子信息领域的重大科学问题和瓶颈技术，开展基础性、战略性和前瞻性探索研究和关键技术攻关，产生一批原创性的具有重要意义和重要国际影响的研究成果，并在若干方面将研究成果转化为可预期的具有市场价值的产品，为我国在未来的国际战略竞争中抢占核心技术的制高点打下坚实基础。

本专项鼓励和倡导原始创新，并积极推动应用研究，力争在新原理原型器件等方面取得突破，向功能化集成和实用化方向推进。量子调控研究的目标是认识和了解量子世界的基本现象和规律，通过开发新材料、构筑新结构、发现新物态以及施加外场等手段对量子过程进行调控和开发，在关联电子体系、小量子体系、人工带隙体系等重要研究方向上建立突破经典调控极限的全新量子调控技术。量子信息研究的目标是在量子通信的核心技术、材料、器件、工艺等方面突破一系列关键瓶颈，初步具备构建空地一体广域量子通信网络的能力，实现量子相干和量子纠缠的长时间保持和高精度操纵，实现可扩展的量子信息处理，并应用于大尺度的量子计算和量子模拟以及量子精密测量。

“量子调控与量子信息”重点专项
2017年度项目申报指南编制专家名单

序号	姓 名	单位	职称/职务
1	王玉鹏	中国科学院物理研究所	研究员
2	潘建伟	中国科学技术大学	教 授
3	资 剑	复旦大学	教 授
4	薛其坤		

国家重点研发计划“量子调控与量子信息”重点专项2017年度申报项目答辩评审专家名单公告

发布时间：2017年04月05日 来源：科学技术部

根据“量子调控与量子信息”重点专项2017年度申报项目评审工作安排，兹定于2017年4月6—7日召开项目答辩评审会。此次评审用取视频答辩评审方式，评审项目分为4个组，评审专家统一从国家科技专家库中抽取产生，共68人。现将视频答辩评审专家名单予以公布（见附件）。

专项办公室联系方式：010-68104388

科技部高技术研究发展中心

2017年4月5日

附件：

量子调控与量子信息重点专项2017年度申报项目

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[DOC] 重点专项增加项目2018年度项目申报指南（征求意见稿） - 国家科技部

www.most.gov.cn/tztg/201801/W020180119612527349235.docx

“生殖健康及重大出生缺陷防控研究”. 重点专项增加项目2018年度项目申报指南. （征求意见稿）. 本专项聚焦我国生殖健康领域的突出问题，重点关注生殖健康相关疾病、出生缺陷和辅助生殖技术；开展以揭示影响人类生殖、生命早期发育、妊娠结局主要因素为目的的科学研究；实现遗传缺陷性疾病筛查、阻断等一批重点技术突破；建立 ...

[DOC] 重点专项2018年度项目申报指南 - 国家科技部

www.most.gov.cn/mostinfo/xinxifenlei/fgzc/.../W020171212604944689787.doc

生殖健康及重大出生缺陷防控研究”. 重点专项2018年度申报指南. 本专项聚焦我国生殖健康领域的突出问题，重点监控生殖健康相关的疾病、出生缺陷和辅助生殖技术；开展以揭示影响人类生殖、生命早期发育、妊娠结局主要因素为目的科学研究；实现遗传缺陷性疾病筛查、阻断等一批重点技术突破；建立我国重大出生缺陷疾病防治的全 ...

[PDF] “生殖健康及重大出生缺陷防控研究” 重点专项2017 年度项目申报指南

www.ustc.edu.cn/ggtz/keyan/201610/P020161013596761314080.pdf

重点专项2017 年度项目申报指南. “生殖健康及重大出生缺陷防控研究”重点专项聚焦我. 国生殖健康领域的突出问题，重点监控生殖健康相关的疾. 病、出生缺陷和辅助生殖技术；开展以揭示影响人类生殖、. 生命早期发育、妊娠结局主要因素为目的科学研究；实现遗. 传缺陷性疾病筛查、阻断等一批重点技术突破；建立我国重. 大出生缺陷 ...

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2016年8月1日 - 附件2 “生殖健康及重大出生缺陷防控研究” 重点专项 2016 年度申报指南我国是...陷生物样本资源库和数据信息库;开展以揭示影响人类生殖、生 命早期发...

https://wenku.baidu.com/view/d... - 百度快照

...防控与应急技术装备”重点专项新增任务2017年申报指南_..._搜狐

2017年9月1日 - “公共安全风险防控与应急技术装备”重点专项新增任务2017年申报指南(见附件...出生缺陷和辅助生殖技术;开展以揭示影响人类生殖、生命早期发育、妊娠...

www.sohu.com/a/1689743... - 百度快照

...重点专项2017年度项目申报指南+形式审查条件+指南编制专家名单...

2016年10月21日 - “生殖健康及重大出生缺陷防控研究”重点专项 2017年度项目申报指南 “生殖...人类生殖细胞与胚胎发育相关机制研究 2.1 人类胚胎发育中的细胞编程与配...

www.wokeji.com/ruidong... - 百度快照

973申报指南_百度文库

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2012年4月9日 - 973申报指南_自然科学_专业资料。附件 1: 国家重点基础研究发展计划和重大科学 研究计划 2013 年重要支持方向农业科学领域 1. 主要农作物生殖发育的分...

https://wenku.baidu.com/view/c... - 百度快照

淡水鱼类资源与生殖发育 教育部重点实验室 - 道客巴巴

2014年12月7日 - 第六条 符合申请条件的科技人员按照实验室发布的《淡水鱼类资源与生殖发

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4	阿迪海洋垃圾造鞋	277058
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8	乔振宇晒照感叹	271928
9	周杰伦女儿滑冰	270646
10	中国无人坦克亮相	268329

来源：百度风云榜 - 实时热点

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- 优势：新颖、权威
- 不足：一般都不会具体到很细的领域，通常是比较宏观的

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按立项/批准年度分类

- 2012 [1]
- 2011 [12]

按来源分类

- 部门科技报告
- 地方科技报告

按学科分类

- 生物科学 [11]

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1、 **鼻咽癌特异性核酸适配体及蛋白质分子标志物的筛选和鉴定**

【作者及作者单位】刘卫东(中南大学)

【项目类别】面上项目 【立项/批准年度】2012

【项目/课题名称】鼻咽癌特异性核酸适配体及蛋白质分子标志物的筛选和鉴定

详细内容 在线浏览

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  - 国家重点基础研究发展计划(973计划)(5891)
  - 国家高技术研究发展计划(863计划)(10112)
  - 国家科技支撑计划(6420)
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题名 核酸适配体 检 索

核酸适配体

报告样例

100GE光以太网关键技术研究与系统传输试验
100GE Ethernet key Technology Research & System Transmission Experimentation

详细内容 在线浏览

按学科分类

- 生物科学 [11]
- 医药、卫生 [3]
- 数理科学和化学 [2]
- 原子能技术 [1]

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- 进展报告 [8]
- 立项报告 [4]
- 专题报告 [4]
- 最终报告 [1]

2、 **基于核酸适配体的蛋白质定量检测新方法研究报告**

【作者及作者单位】于聪(中国科学院长春应用化学研究所)，董绍俊(中国科学院长春应用化学研究所)，聂舟(湖南大学)，羊小海(湖南大学)，刘庄(苏州大学)

【计划名称】国家重大科学研究计划 【立项/批准年度】2011

【项目/课题名称】基于核酸适配体的蛋白质定量检测新方法研究

详细内容 在线浏览 原文推送

3、 **基于核酸适配体的蛋白质定量检测新方法研究立项报告**

【作者及作者单位】于聪(中国科学院长春应用化学研究所)，董绍俊(中国科学院长春应用化学研究所)，聂舟(湖南大学)，羊小海(湖南大学)，刘庄(苏州大学)

【计划名称】国家重大科学研究计划 【立项/批准年度】2011

【项目/课题名称】基于核酸适配体的蛋白质定量检测新方法研究

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4、 **基于核酸适配体的蛋白质分离与富集新技术研究**

【作者及作者单位】许丹科 (南京大学)，练鸿振 (南京大学)，余晓冬 (南京大学)，张晓兵 (湖南大学)，袁伟(中国医学科学院肿瘤研究所)

【计划名称】国家重大科学研究计划 【立项/批准年度】2011

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5、 **“基于核酸适配体的蛋白质分离与富集新技术研究”中期报告**

【作者及作者单位】许丹科（南京大学），练鸿振（南京大学），余晓冬（南京大学），张晓兵（湖南大学），袁伟（中国医学科学院肿瘤研究所）

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【项目/课题名称】基于核酸适配体的蛋白质分离与富集新技术研究

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6、 **基于核酸适配体的蛋白质分离与富集新技术研究立项报告**

【作者及作者单位】许丹科（南京大学），练鸿振（南京大学），余晓冬（南京大学），张晓兵（湖南大学），袁伟（中国医学科学院肿瘤研究所）

【计划名称】国家重大科学研究计划　　【立项/批准年度】2011

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7、 **核酸适配体筛选新方法的基础研究**

【作者及作者单位】谭蔚泓（湖南大学），俞汝勤（湖南大学），蒋健晖（湖南大学），方晓红（中国科学院化学研究所），李继山（湖南大学）

【计划名称】国家重大科学研究计划　　【立项/批准年度】2011

【项目/课题名称】核酸适配体筛选新方法的基础研究

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8、 **核酸适配体筛选新方法的基础研究年度报告（2013）**

【作者及作者单位】谭蔚泓（湖南大学），俞汝勤（湖南大学），蒋健晖（湖南大学），方晓红（中国科学院化学研究所），李继

核酸适配体筛选新方法的基础研究

The basic research for screening aptamer by novel approaches

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公开范围： 公开

报告类型： 专题报告

编制时间： Sunday, December 29, 2013

报告作者： [1]谭蔚泓(湖南大学)
[2]俞汝勤(湖南大学)
[3]蒋健晖(湖南大学)
[4]方晓红(中国科学院化学研究所)
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中文摘要： 对SELEX筛选技术中核酸适配体进化基本规律的认识，是提高核酸适配体筛选效率以满足其生物医学应用所需

引言
1 高效核酸适配体筛选平台的构建及系列
2 核酸适配体的分子识别图谱研究及应用
3 用于系统研究核酸适配体分子识别的方
4 结论
参考文献

科技报告

报告名称: 核酸适配体筛选新方法的基础研究

支持渠道: 重大科学研究计划

编制单位: 湖南大学

编制时间: 2013-12-29

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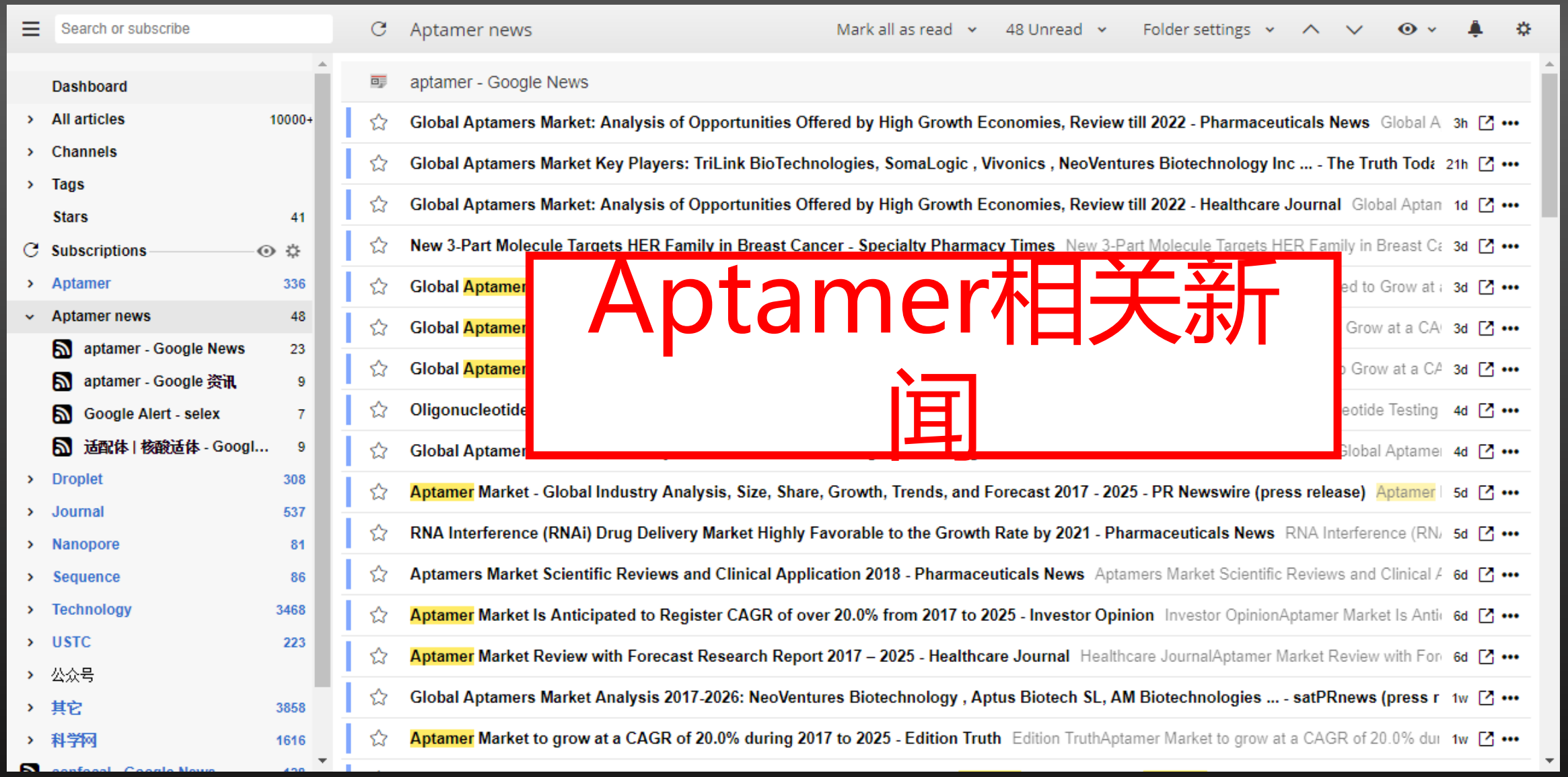

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10,642. **Quantum dot - Aptamer conjugates for synchronous cancer imaging, therapy, and sensing of drug delivery based on Bi-fluorescence resonance energy transfer**

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10,648. **Pegaptanib, a targeted anti-VEGF aptamer for ocular vascular disease**

By: Ng, EWM; Shima, DT; Calias, P; et al.
NATURE REVIEWS DRUG DISCOVERY Volume: 5 Issue: 2 Pages: 123-132 Published: FEB 2006

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10,649. **A DNA APTAMER THAT BINDS ADENOSINE AND ATP**

By: HUIZENGA, DE; SZOSTAK, JW
BIOCHEMISTRY Volume: 34 Issue: 2 Pages: 656-665 Published: JAN 17 1995

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10,650. **Formulation of functionalized PLGA-PEG nanoparticles for in vivo targeted drug delivery**

By: Cheng, Jianjun; Teply, Benjamin A.; Sherifi, Ines; et al.
BIOMATERIALS Volume: 28 Issue: 5 Pages: 869-876 Published: FEB 2007

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2. **Aptamer-mediated selective delivery of a cytotoxic cationic NHC-Au(I) complex to cancer cells**

By: Niu, Weijia; Teng, I-Ting; Chen, Xigao; et al.
DALTON TRANSACTIONS Volume: 47 Issue: 1 Pages: 120-126 Published: JAN 7 2018

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3. **Aptamer-Conjugated Nanomaterials for Specific Cancer Diagnosis and Targeted Therapy**

By: Bai Huarong; Fan Huanhuan; Zhang Xiaobing; et al.
HYSICO-CHIMICA SINICA Volume: 34 Issue: 4 Pages: 348-360 Published: 2018

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5. **Aptamers from Cell-based Selection for Bioanalysis and Bioimaging**

By: Du Yu-Lin; Mo Liu-Ting; Yi Ya-Sha; et al.
CHINESE JOURNAL OF ANALYTICAL CHEMISTRY Volume: 45 Issue: 12 Pages: 1757-1764 Published: DEC 2017

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Times Cited: 0 *(from Web of Science Core Collection)*

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6. **Engineering Stability-Tunable DNA Micelles Using Photocontrollable Dissociation of an Intermolecular G-Quadruplex**

By: Jin, Cheng; Liu, Xiaojing; Bai, Huarong; et al.
ACS NANO Volume: 11 Issue: 12 Pages: 12087-12093 Published: DEC 2017

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Times Cited: 0 *(from Web of Science Core Collection)*

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7. **Recognition-then-Reaction Enables Site-Selective Bioconjugation to Proteins on Live-Cell Surfaces**

By: Cui, Cheng; Zhang, Hui; Wang, Ruowen; et al.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 56 Issue: 39 Pages: 11954-11957 Published: SEP 18 2017

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8. **Selection and characterization of DNA aptamer against glucagon receptor by cell-SELEX**

By: Wang, Guodong; Liu, Jun; Chen, Ke; et al.
SCIENTIFIC REPORTS Volume: 7 Article Number: 7179 Published: AUG 3 2017

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Times Cited: 0 *(from Web of Science Core Collection)*

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9. **Suppression of FOXM1 Transcriptional Activities via a Single-Stranded DNA Aptamer Generated by SELEX**

By: Xiang, Qin; Tan, Guixiang; Jiang, Xia; et al.
IFIC REPORTS Volume: 7 Article Number: 45377 Published: MAR 30 2017

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Invited speakers

Dr Larry GOLD
SomaLogic Inc.
Boulder, CO, USA

Pr Steven BENNER
Foundation for Applied Molecular Evolution, Alachua, USA

Dr Weihong TAN
University of Florida, USA
and Hunan University, China

https://www.aptamers-in-bordeaux.com/final-programme-2017-2/

5TH SESSION : GÜNTER MAYER

10:50 – 11:30 — 40min

O18 : Larry Gold[1]
Aptamers and SOMAmers: Biomarker Discovery, Therapeutics, and Insights
1, Somalogic, Boulder, Colorado, USA

11:30 – 11:50

O19 : Yoshikazu Nakamura[1,2], Ling Jin[1], Yusaku Matsuda[1], Yosuke Nonaka[1], Masatoshi Fujiwara[1]
Anti-FGF2 aptamer provides novel therapy for Achondroplasia and age-related macular degeneration
1, Ribomic Inc., 3-16-13 Shirokanedai, Minato-ku, Tokyo 108-0071, Japan;
2, Institute of Medical Science, The University of Tokyo, Minato-ku, Tokyo 108-8639, Japan

11:50 – 12:10

O20 : Kevin Urak[1,2], Li-Hsien Lin[1], Giselle Blanco[1], Francis Miller Jr[3,4], Paloma Giangrande[1,2,5,6,7]
Aptamers for the treatment of multiple organ dysfunction
1, Department of Internal Medicine, University of Iowa, Iowa City, IA, 52242, USA
2, Molecular & Cellular Biology Program, University of Iowa, Iowa City, IA, 52242, USA
3, Department of Medicine, Duke University, Durham, NC, 27708, USA
4, Department of Internal Medicine, Veterans Affairs Medical Center, Durham, NC, 27708, USA
5, Department of Radiation Oncology University of Iowa, Iowa City, IA, 52242, USA
6, Medical Scientist Training Program, University of Iowa, Iowa City, IA 52242, USA
7, Abboud Cardiovascular Research Center, University of Iowa, Iowa City, IA 52242, USA

12:10 – 12:30

O21 : Anna S. Kichkailo-Zamay[1,2], Tatiana N. Zamay[1,2], Galina S. Zamay[1,2], Sergey S. Zamay[2], Olga S. Kolovskaya[1,2], Andrey K. Kirichenko[2], Yury E. Glazyrin[1,2], Irina V. Garanzha[1], Valentina V. Grigorieva[1], Maxim V.

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By: Gong, Wenlin; Hu, Zixi; Liang, Ying; et al.
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Published: AUG 2018
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2. **DNA-hosted copper nanoclusters/graphene oxide based fluorescent biosensor for protein kinase activity detection**

By: Wang, Mengke; Lin, Zihan; Liu, Qing; et al.
ANALYTICA CHIMICA ACTA Volume: 1012 Pages: 66-73 Published: JUL 5 2018
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3. **Formulation of DNA chimera templates: Effects on emission behavior of silver nanoclusters and sensing**

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Shi Ting; Beaumont, David; Su, Xiao Di; et al.

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10,644. **THROMBIN-BINDING DNA APTAMER FORMS A UNIMOLECULAR QUADRUPLEX STRUCTURE IN SOLUTION**

By: MACAYA, RF; SCHULTZE, P; SMITH, FW; et al.
CEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF

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1. **A simple aptamer-based fluorescent assay for the detection of Aflatoxin B-1 in infant rice cereal**

By: Chen, Lu; Wen, Fang; Li, Ming; et al.
FOOD CHEMISTRY Volume: 215 Pages: 377-382 Published: JAN 15 2017

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2. **QCM-based aptamer selection and detection of Salmonella typhimurium**

By: Wang, Lijun; Wang, Ronghui; Chen, Fang; et al.
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By: Liu, Guoliang; Lo, Jingjing; Feng, Da-Qian; et al.
ANALYTICAL CHEMISTRY Volume: 89 Issue: 1 Pages: 1002-1008 Published: JAN 3 2017

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6. **Structural Basis for Ligand Binding to the Guanidine-I Riboswitch**

By: Reiss, Caroline W.; Xiong, Yong; Strobel, Scott A.
STRUCTURE Volume: 25 Issue: 1 Pages: 195-202 Published: JAN 3 2017

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7. **Structural basis for high-affinity fluorophore binding and activation by RNA Mango**

By: Trachman, Robert J., III; Demeshkina, Natalia A.; Lau, Matthew W. L.; et al.
NATURE CHEMICAL BIOLOGY Volume: 13 Issue: 7 Pages: 807-+ Published: JUL 2017

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8. **Single-molecule detection of protein efflux from microorganisms using fluorescent single-walled carbon nanotube sensor arrays**

By: Landry, Markita Patricia; Ando, Hiroki; Chen, Allen Y.; et al.
NATURE NANOTECHNOLOGY Volume: 12 Issue: 4 Pages: 368-377 Published: APR 2017

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9. **Fabrication of aptamer decorated dextran coated nano-graphene oxide for targeted drug delivery**

By: Alibolandi, Mona; Mohammadi, Marzieh; Taghdisi, Seyed Mohammad; et al.
HYDRATE POLYMERS Volume: 155 Pages: 218-229 Published: JAN 2 2017

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8. **Single-molecule detection of protein efflux from microorganisms using fluorescent single-walled carbon nanotube sensor arrays**

By: Landry, Markita Patricia; Ando, Hiroki; Chen, Allen Y.; et al.
NATURE NANOTECHNOLOGY Volume: 12 Issue: 4 Pages: 368-377 Published: APR 2017

Full Text from Publisher | View Abstract

Times Cited: 12
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Highly Cited Paper
Usage Count

9. **Fabrication of aptamer decorated dextran coated nano-graphene oxide for targeted drug delivery**

By: Alibolandi, Mona; Mohammadi, Marzieh; Taghdisi, Seyed Mohammad; et al.
CARBOHYDRATE POLYMERS Volume: 155 Pages: 218-229 Published: JAN 2 2017

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10. **Real-time measurement of small molecules directly in awake, ambulatory animals**

By: Arroyo-Curras, Netzahualcoyotl; Somerson, Jacob; Vieira, Philip A.; et al.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA
Volume: 114 Issue: 4 Pages: 645-650 Published: JAN 24 2017

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- 2017 (1,378)
- 2016 (1,304)
- 2015 (1,238)

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10,641. **Fast colorimetric sensing of adenosine and cocaine based on a general sensor design involving aptamers and nanoparticles**

By: Liu, JW; Lu, Y
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 45 Issue: 1 Pages: 90-94 Published: 2006

Full Text from Publisher

Times Cited: 604 *(from Web of Science Core Collection)*

Usage Count

10,642. **Quantum dot - Aptamer conjugates for synchronous cancer imaging, therapy, and sensing of drug delivery based on Bi-fluorescence resonance energy transfer**

By: Bagalkot, Vaishali; Zhang, Liangfang; Levy-Nissenbaum, Etgar; et al.
NANO LETTERS Volume: 7 Issue: 10 Pages: 3065-3070 Published: OCT 2007

Full Text from Publisher | View Abstract

Times Cited: 605 *(from Web of Science Core Collection)*

Highly Cited Paper

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10,643. **Cell type-specific delivery of siRNAs with aptamer-siRNA chimeras**

By: McNamara, James O.; Andrechek, Eran R.; Wang, Yong; et al.
NATURE BIOTECHNOLOGY Volume: 24 Issue: 8 Pages: 1005-1015 Published: AUG 2006

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Times Cited: 605 *(from Web of Science Core Collection)*

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10,644. **THROMBIN-BINDING DNA APTAMER FORMS A UNIMOLECULAR QUADRUPLEX STRUCTURE IN ...TION**

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1. **A simple aptamer-based fluorescent assay for the detection of Aflatoxin B-1 in infant rice cereal**

By: Chen, Lu; Wen, Fang; Li, Ming; et al.
FOOD CHEMISTRY Volume: 215 Pages: 377-382 Published: JAN 15 2017
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Times Cited: 8 *(from Web of Science Core Collection)*
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2. **QCM-based aptamer selection and detection of Salmonella typhimurium**

By: Wang, Lijun; Wang, Ronghui; Chen, Fang; et al.
FOOD CHEMISTRY Volume: 221 Pages: 776-782 Published: APR 15 2017
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Times Cited: 9 *(from Web of Science Core Collection)*
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3. **In vitro and in vivo evaluation of anti-nucleolin-targeted magnetic PLGA nanoparticles loaded with doxorubicin as a theranostic agent for enhanced targeted cancer imaging and therapy**

By: Mosafer, Jafar; Abnous, Khalil; Tafaghodi, Mohsen; et al.
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS Volume: 113 Pages: 60-74 Published: APR 2017
Full Text from Publisher | View Abstract

Times Cited: 9 *(from Web of Science Core Collection)*
Highly Cited Paper
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4. **Polyethylenimine-functionalized carbon nanotubes tagged with AS1411 aptamer for combination gene and drug delivery into human gastric cancer cells**

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1. **Structural basis for high-affinity fluorophore binding and activation by RNA Mango**

By: Trachman, Robert J., III; Demeshkina, Natalia A.; Lau, Matthew W. L.; et al.
NATURE CHEMICAL BIOLOGY Volume: 13 Issue: 7 Pages: 807-+ Published: JUL 2017

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2. **The aptamers generated from HepG2 cells**

By: Huang, Rongrong; Chen, Zhongsi; Liu, Mei; et al.
SCIENCE CHINA-CHEMISTRY Volume: 60 Issue: 6 Pag

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1. **Structural basis for high-affinity fluorophore binding and activation by RNA Mango**

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2. **The aptamers generated from HepG2 cells**

By: Huang, Rongrong; Chen, Zhongsi; Liu, Mei; et al.
SCIENCE CHINA-CHEMISTRY Volume: 60 Issue: 6 Pages: 786-792 Published: JUN 2017

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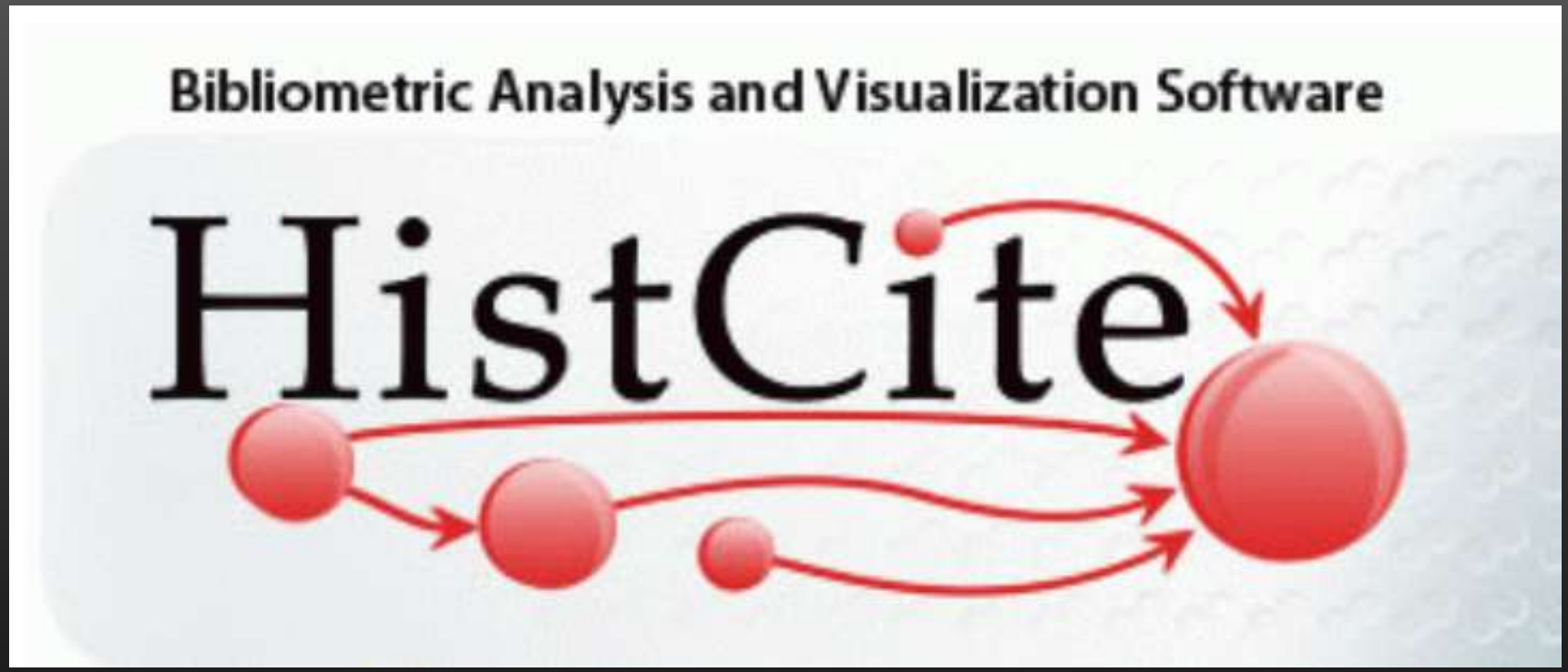
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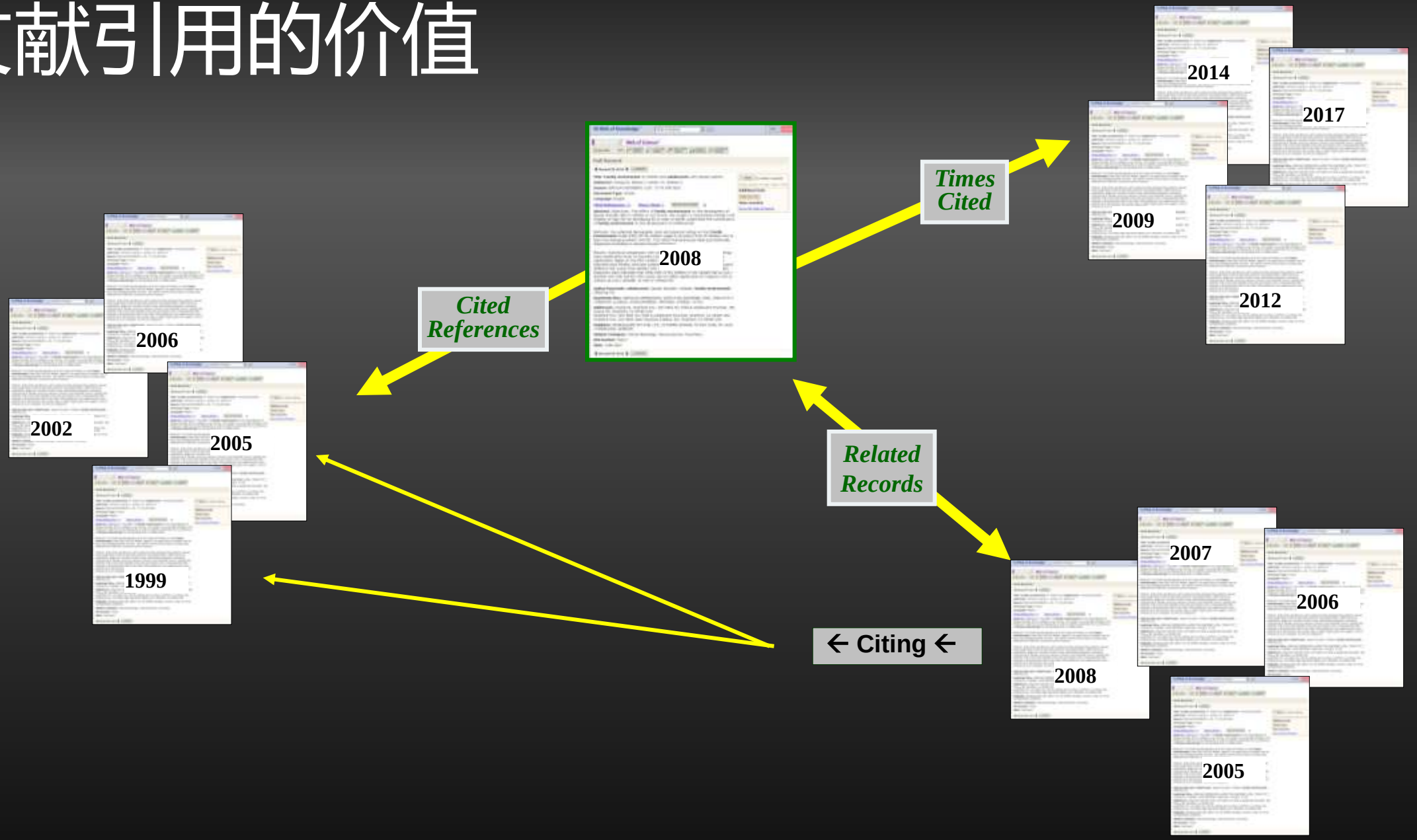
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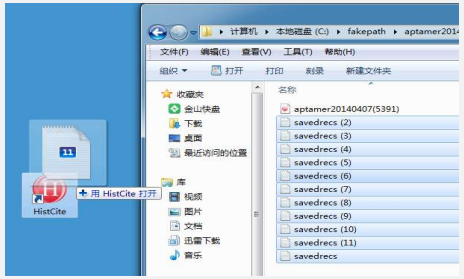

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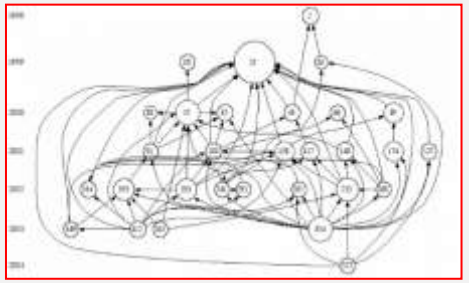

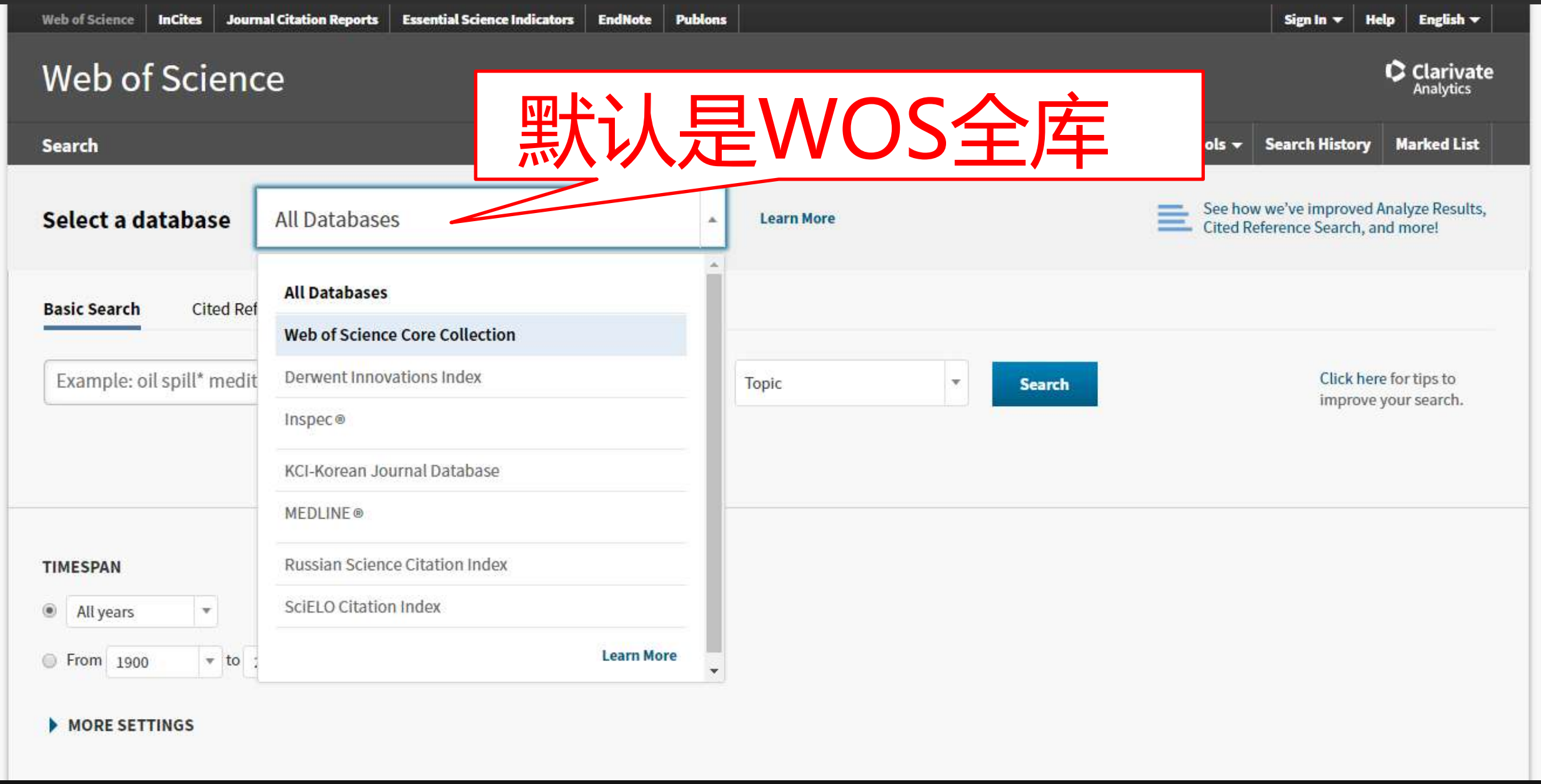
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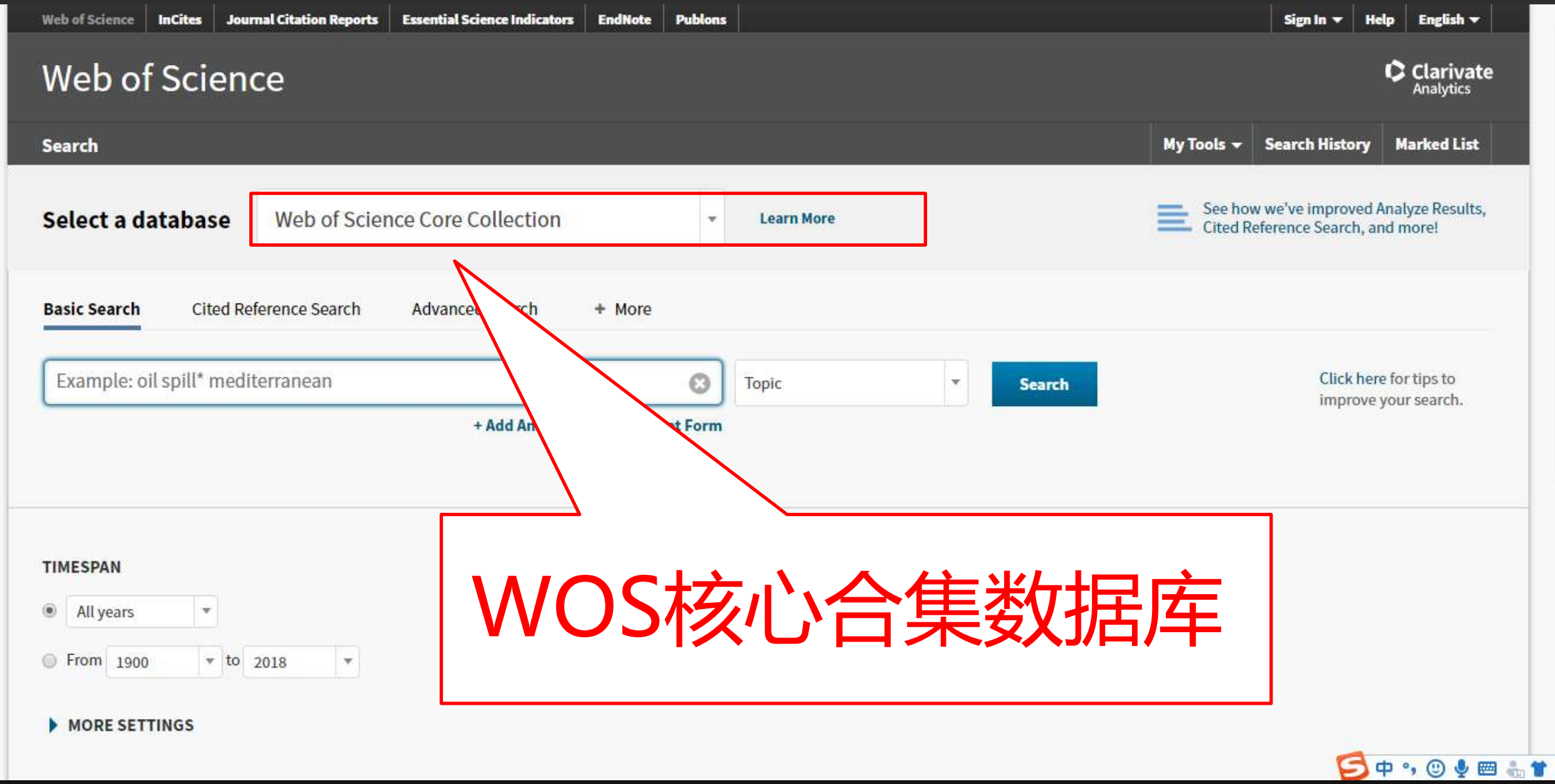
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1. **SELECTION OF SINGLE-S… AND INHIBIT HUMAN THROMBIN**
By: BOCK, LC; GRIFFIN, LC; L…
NATURE Volume: 355 Issu… 92
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2. **Aptamers: An emerging class of molecules … rival antibodies in diagnostics**
By: Jayasena, SD
Conference: 1999 Oak Ridge Conference Location: SAN JO… 1999
CLINICAL CHEMISTRY Volume: 45 Issue…
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3. **Direct evidence for a G-quadruplex i… repress c-MYC transcription**
By: Siddiqui-Jain, A; Grand, CL; Bearss, DJ; et al.
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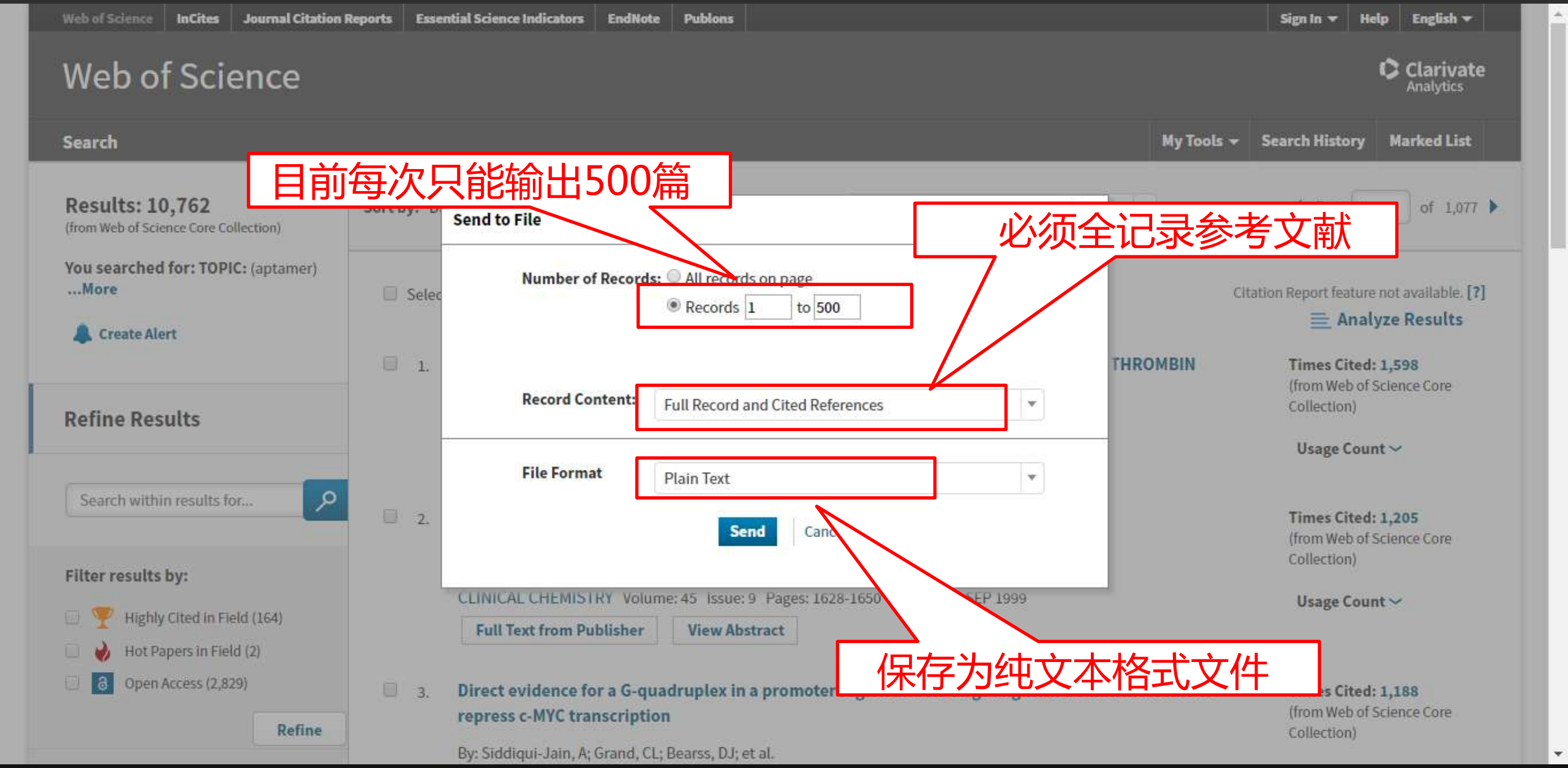
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CLINICAL CHEMISTRY Volume: 45 Issue: 9 Pages: 1628-1650 SEP 1999
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Direct evidence for a G-quadruplex in a promoter repress c-MYC transcription
By: Siddiqui-Jain, A; Grand, CL; Bearss, DJ; et al.
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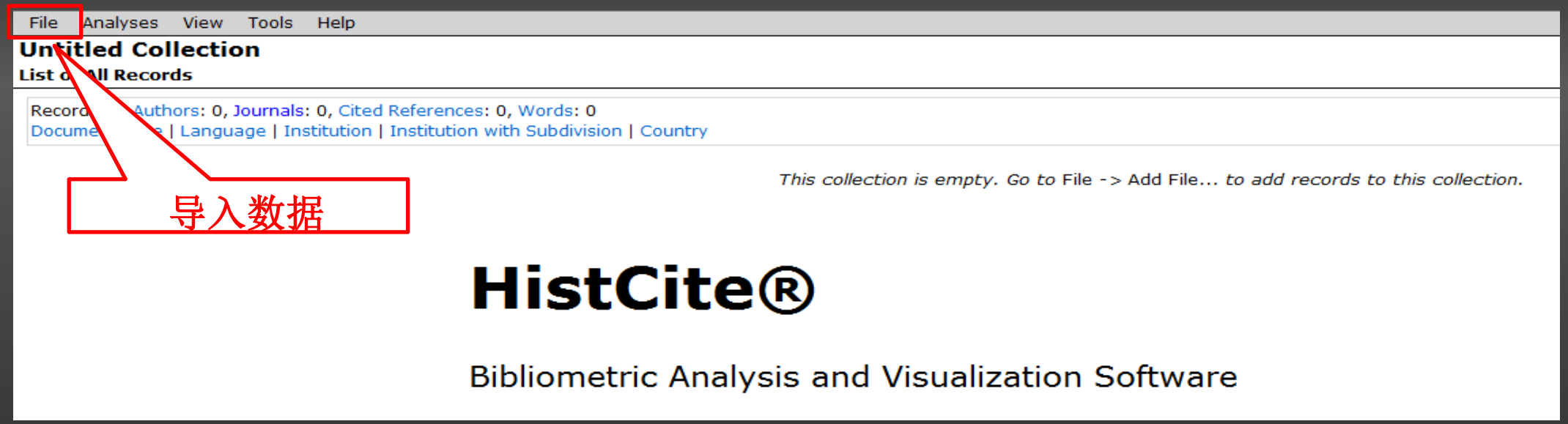
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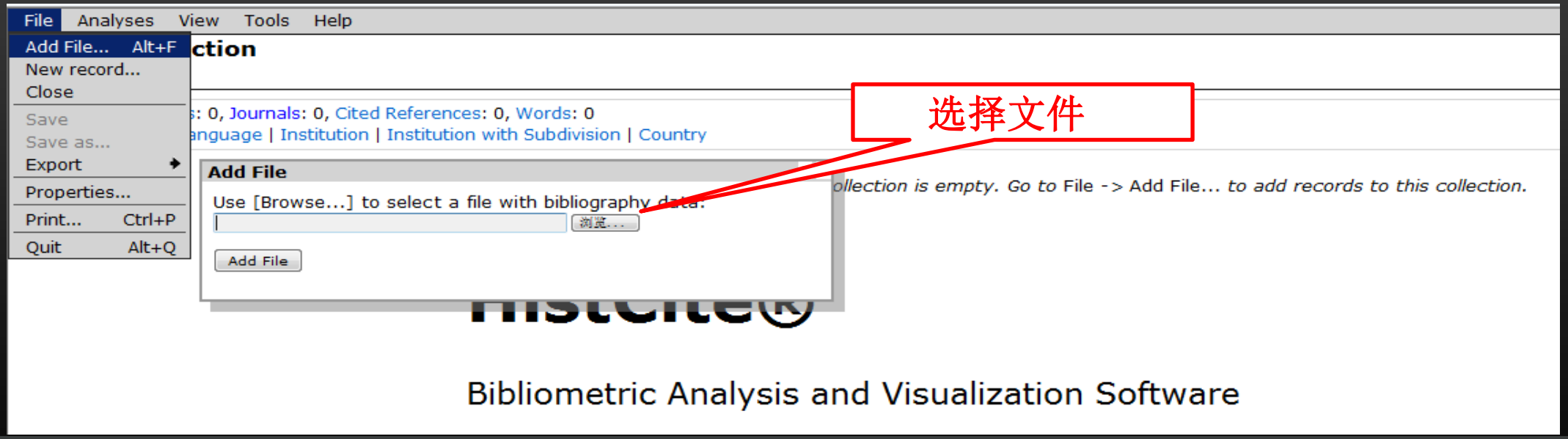
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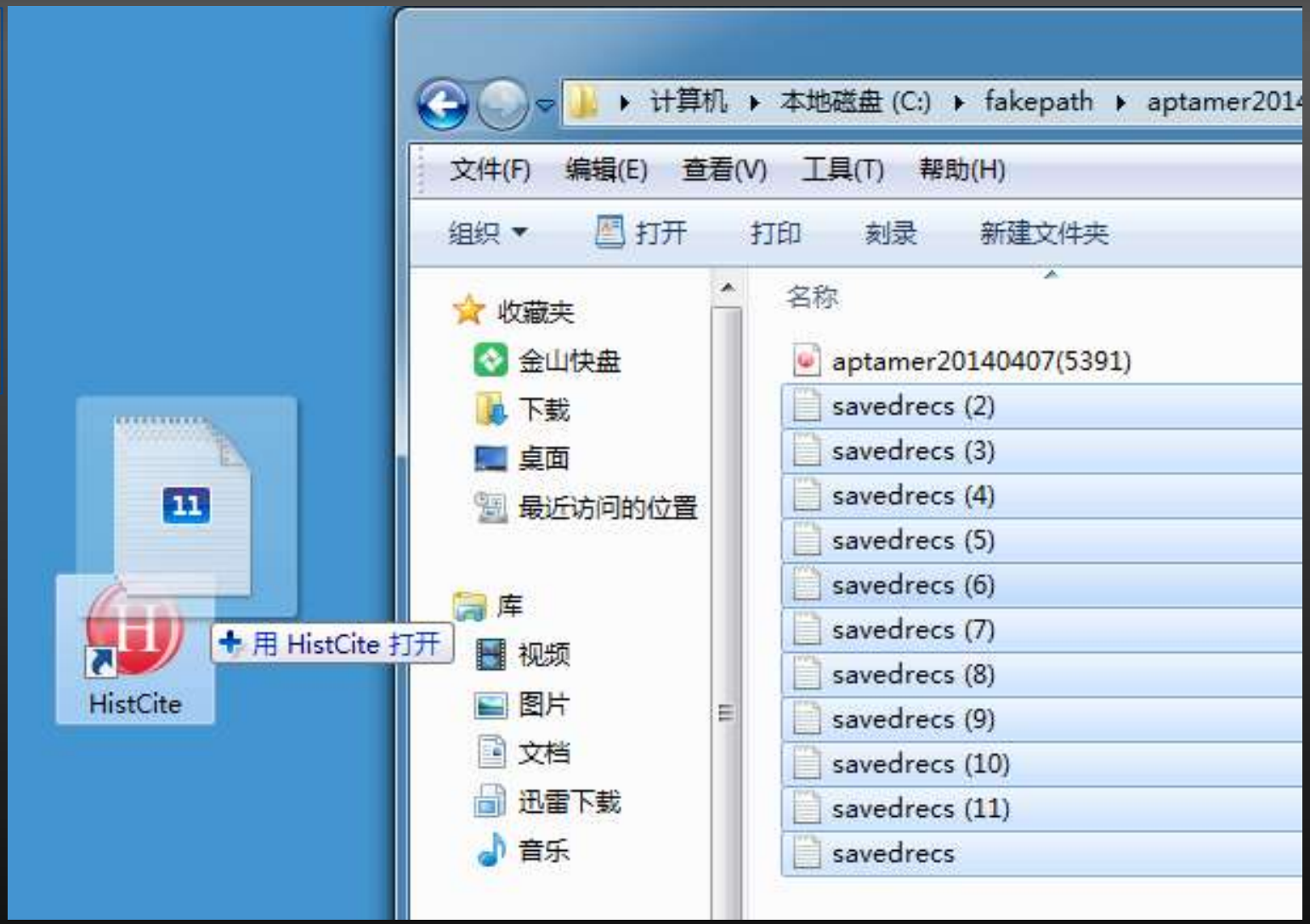

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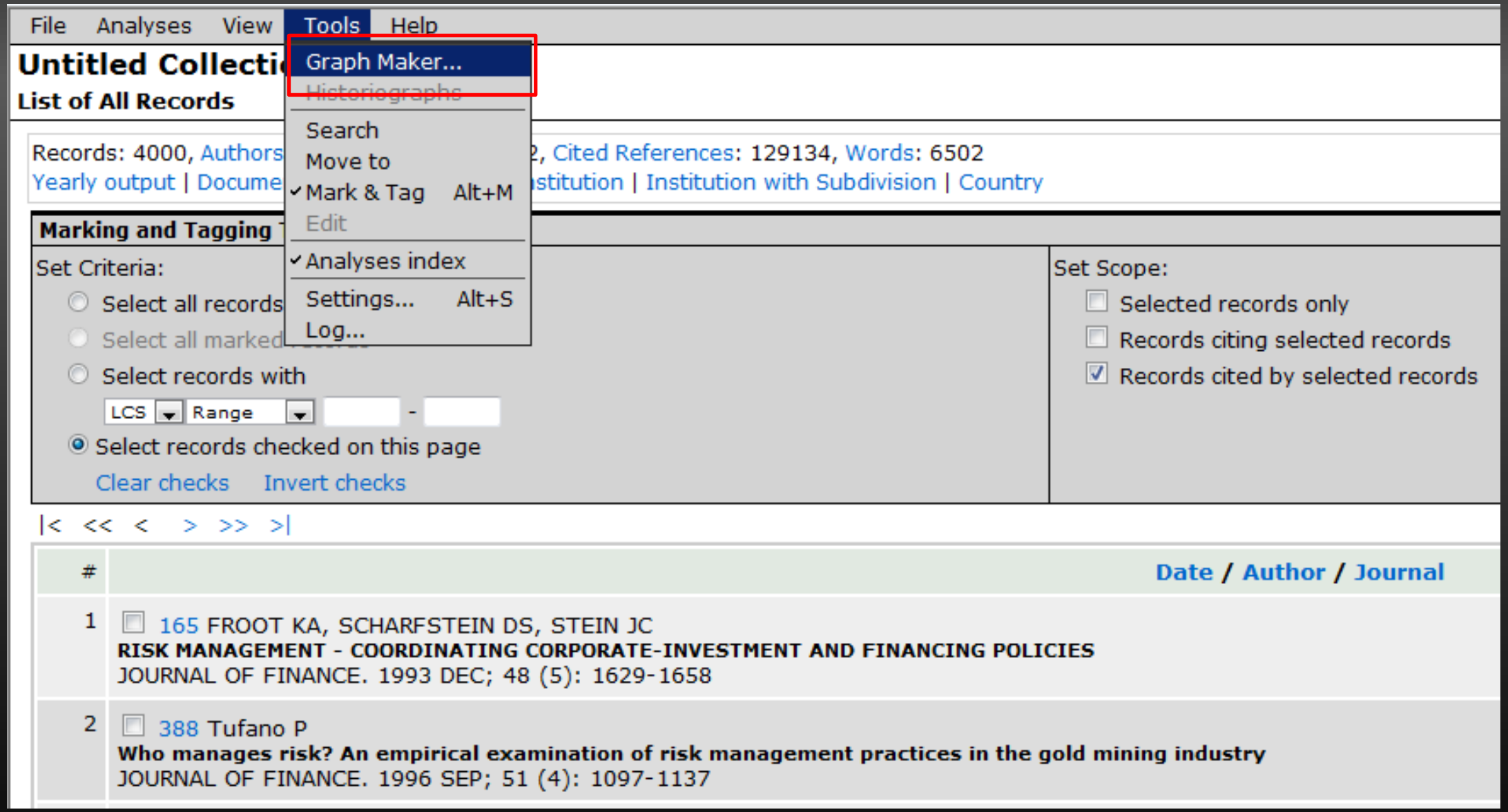
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165 FROOT KA, SCHARFSTEIN DS, STEIN JC
RISK MANAGEMENT - COORDINATING CORPORATE-INVESTMENT AND FINANCING POLICIES
JOURNAL OF FINANCE. 1993 DEC; 48 (5): 1629-1658
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388 Tufano P
Who manages risk? An empirical examination of risk management practices in the gold mining industry
JOURNAL OF FINANCE. 1996 SEP; 51 (4): 1097-1137

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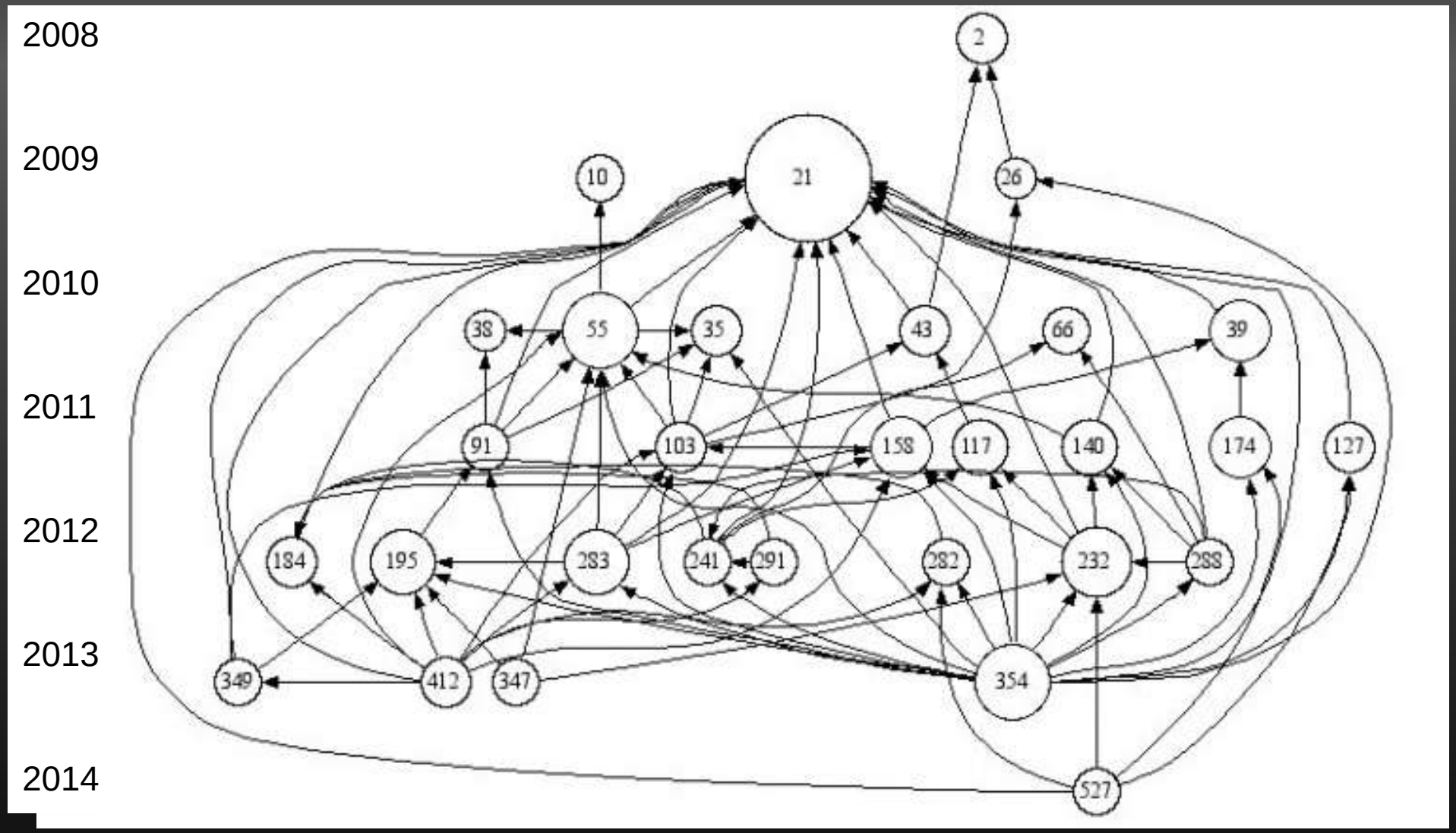
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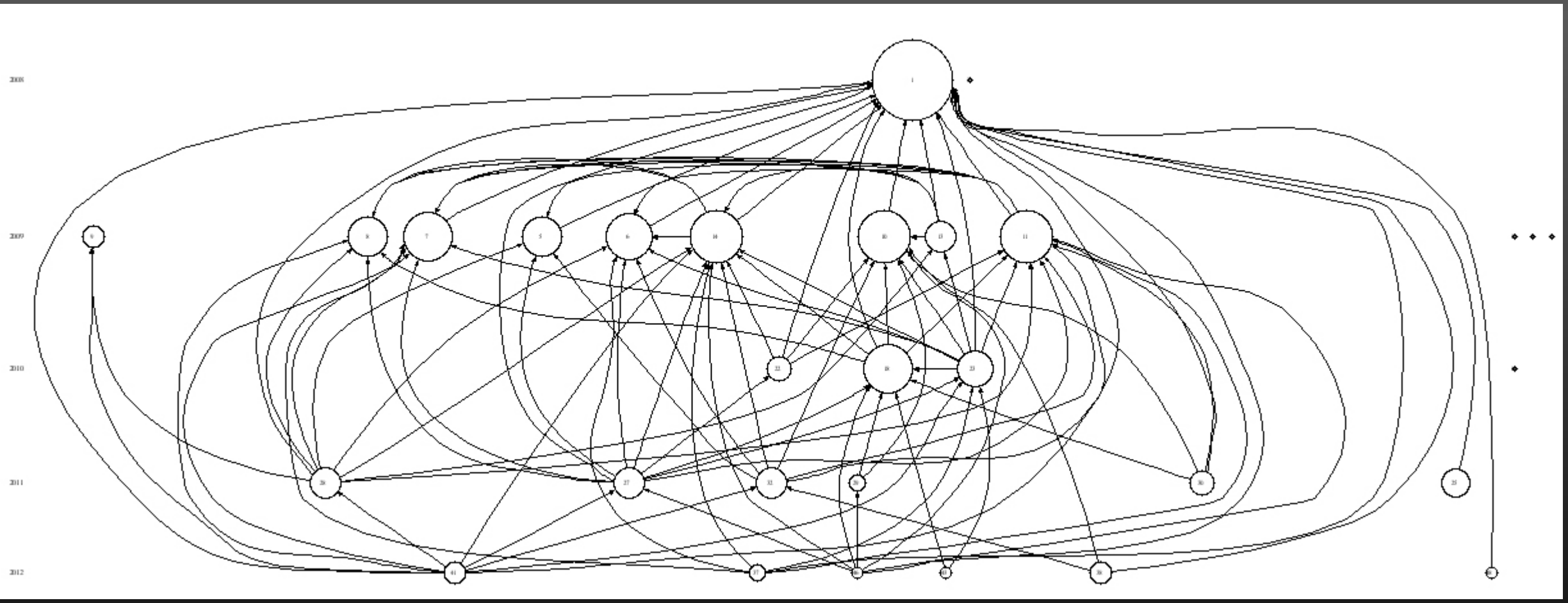
Cold PCR



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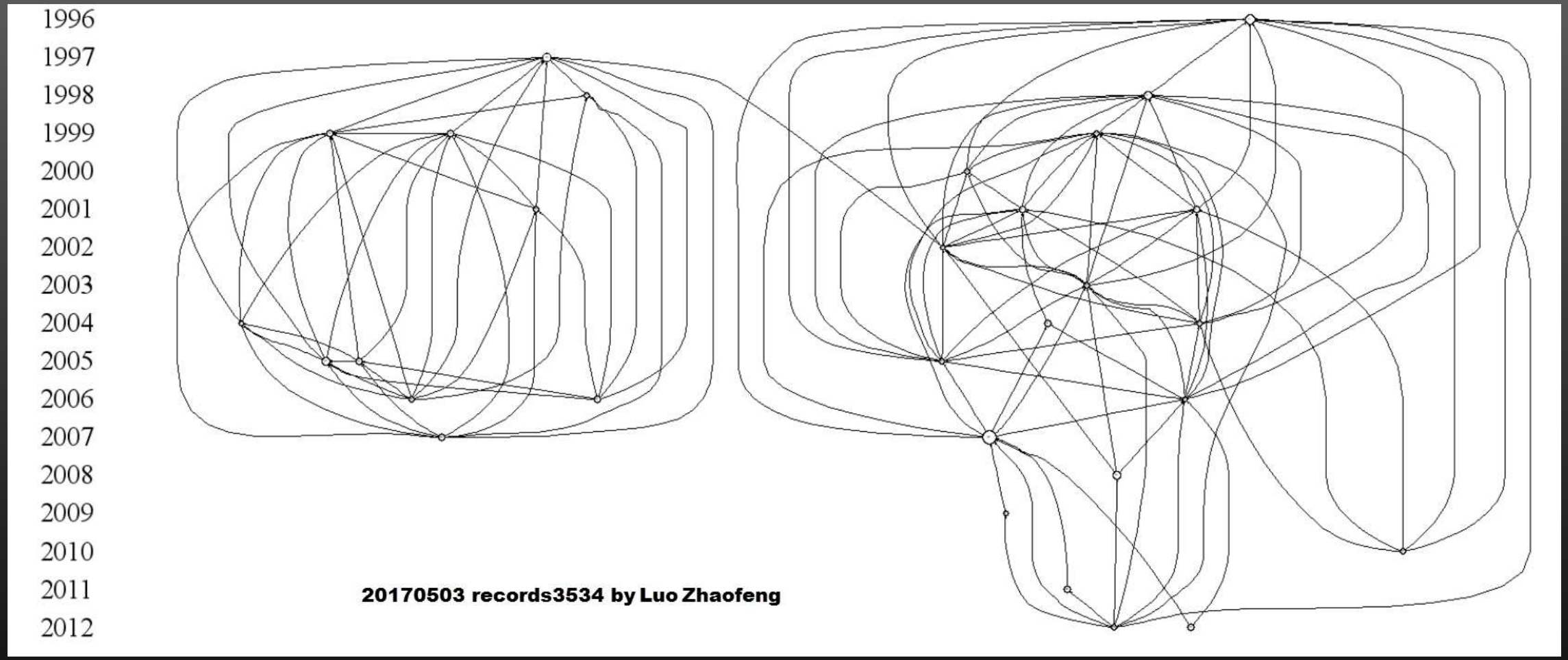

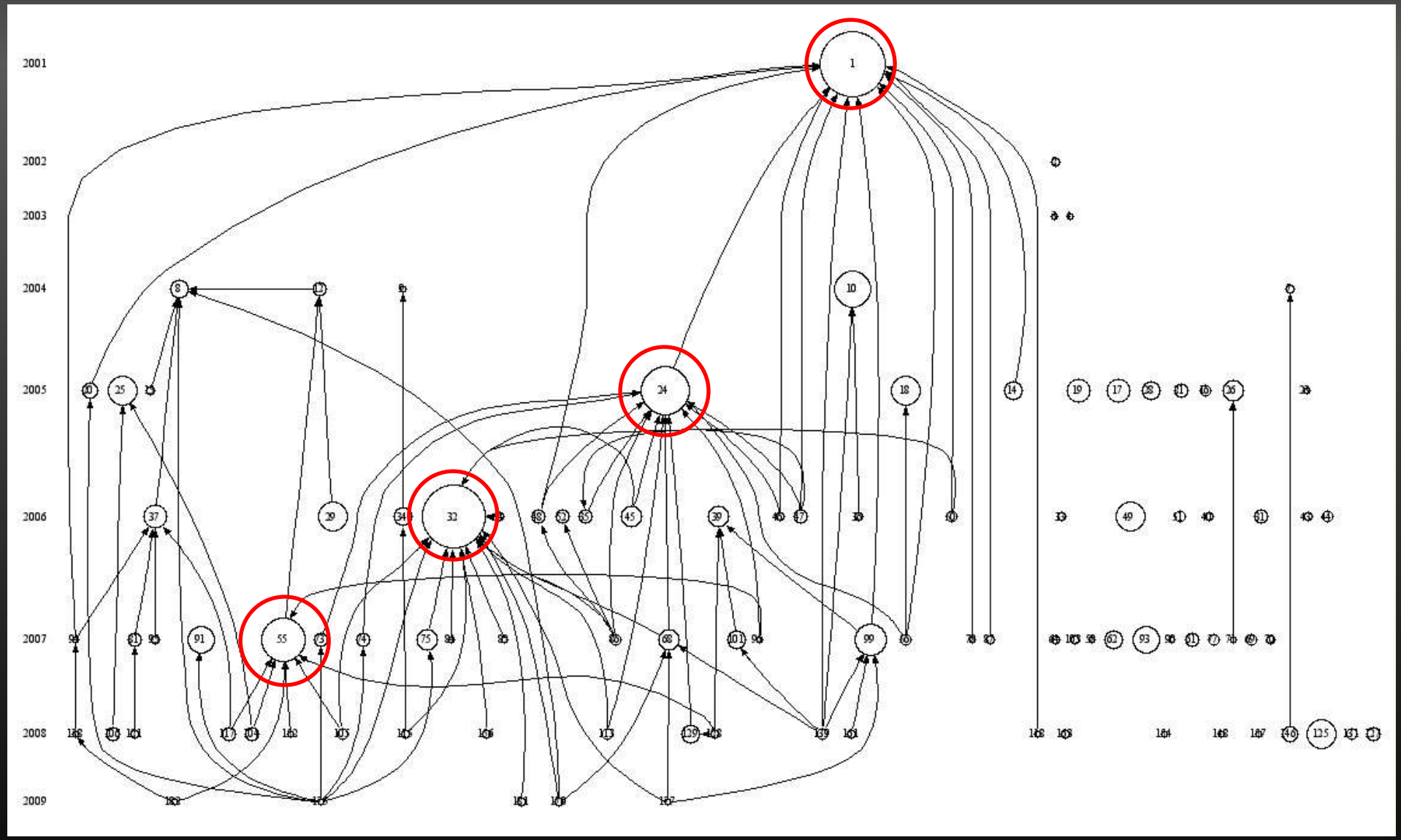
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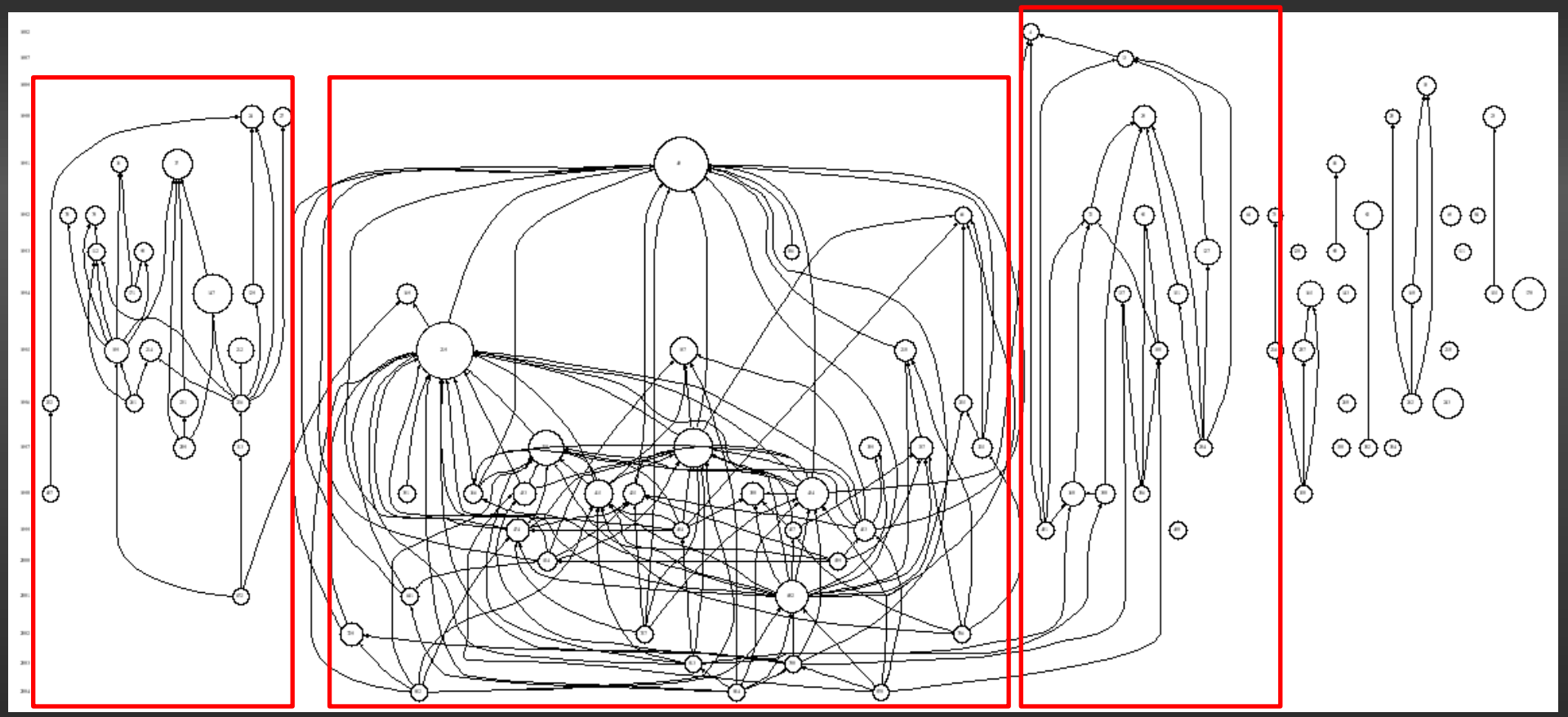

本作业分析的关键词是语音识别，在这之前试过智能车辆和模式识别，智能车辆不是研究热点，相关论文较少，且分散，没有分析意义；关键词模式识别范围太广，论文过多，在有限的几十个点上也分析不出什么结果。最终选定语音识别，从分析结果可以看出，语音识别主要分成两个分支，而语音识别的理论研究是热点，大致是沿一条主线发展过来的。 By：SC09010014

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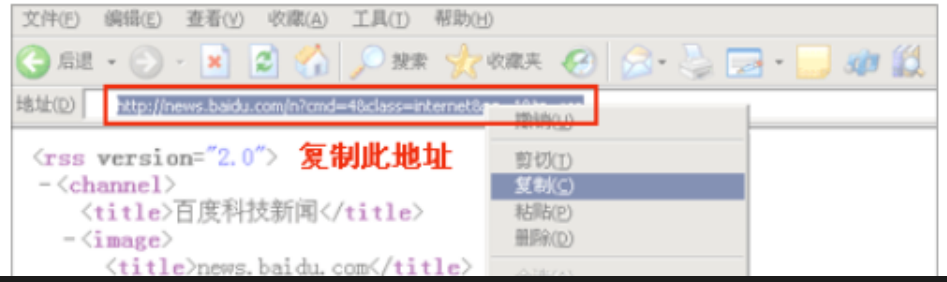

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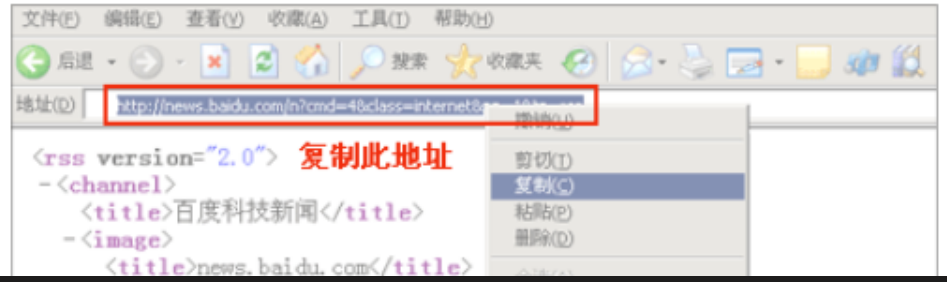

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潘建伟亮相"委员通道":两个例子科普"量子信息技术" 什么是量子信息技术?它到底有什么用?尽管听起来离我们的生活很遥远,其实量子信息技术的发展,会对中
新春·新局 "委员通道"首次开启·潘建伟:量子信息科技发展与... 新春·新局 "委员通道"首次开启·潘建伟:量子信息科技发展与生活息息相关2018年03月03日21:37
"量子之父"潘建伟: 中国量子信息技术有信心继续领跑世界 潘建伟是享誉全球的量子物理学家,被称作"量子之父"。应记者要求,他介绍了"高精尖"的量子信息技
潘建伟:量子保密通信网络可保千家万户信息安全 全国政协委员、中国科学院院士潘建伟3日在北京表示,将通过五到十年努力,构建一个天地一体化的量子保密
两会时间潘建伟:构建量子保密通信网络,保护隐私与信息安全 全国政协委员、中国科学技术大学常务副校长潘建伟接受采访时表示,量子信息技术有望帮助人类
现在
量子信息
tv.people.com.cn/n1/2018/0303/c61600-29845889.html

哪里有能代表前沿的信息？

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检索　　阅读

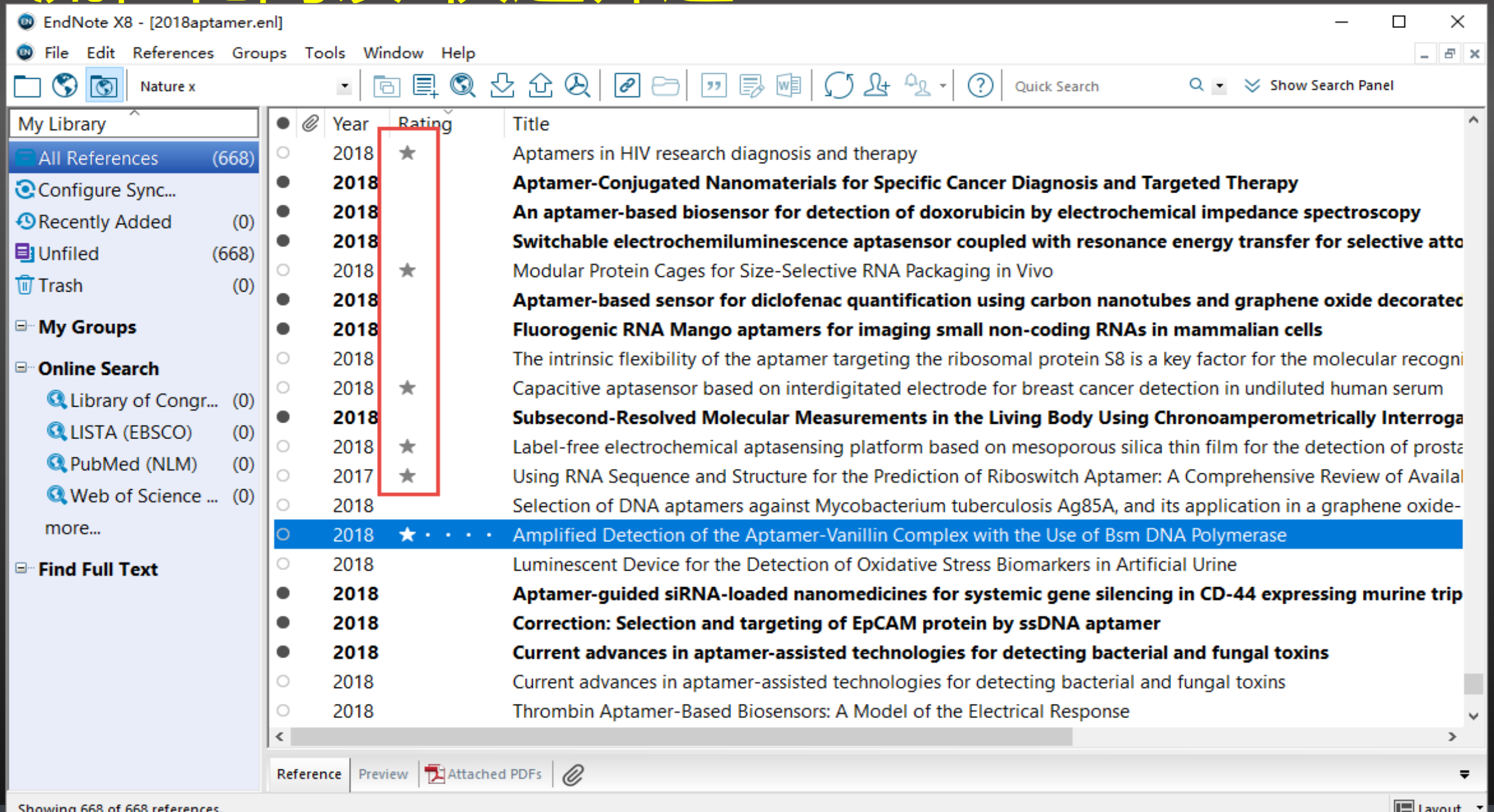
Part 3：如何提升文献阅读效率

手工作坊->流水线

利用endnote实现快速阅读

4月17日晚详细介绍

流程化阅读-快速筛选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2018 Aptamers in HIV research diagnosis and therapy
2018 Aptamer-Conjugated Nanomaterials for Specific Cancer Diagnosis and Targeted Therapy
2018 An aptamer-based biosensor for detection of doxorubicin by electrochemical impedance spectroscopy
2018 Switchable electrochemiluminescence aptasensor coupled with resonance energy transfer for selective atto
2018 Modular Protein Cages for Size-Selective RNA Packaging in Vivo
2018 Aptamer-based sensor for diclofenac quantification using carbon nanotubes and graphene oxide decorated
2018 Fluorogenic RNA Mango aptamers for imaging small non-coding RNAs in mammalian cells
2018 The intrinsic flexibility of the aptamer targeting the ribosomal protein S8 is a key factor for the molecular recogni
2018 Capacitive aptasensor based on interdigitated electrode for breast cancer detection in undiluted human serum
2018 Subsecond-Resolved Molecular Measurements in the Living Body Using Chronoamperometrically Interroga
2018 Label-free electrochemical aptasensing platform based on mesoporous silica thin film for the detection of prosta
2017 Using RNA Sequence and Structure for the Prediction of Riboswitch Aptamer: A Comprehensive Review of Availal
2018 Selection of DNA aptamers against Mycobacterium tuberculosis Ag85A, and its application in a graphene oxide-
2018 Amplified Detection of the Aptamer-Vanillin Complex with the Use of Bsm DNA Polymerase
2018 Luminescent Device for the Detection of Oxidative Stress Biomarkers in Artificial Urine
2018 Aptamer-guided siRNA-loaded nanomedicines for systemic gene silencing in CD-44 expressing murine trip
2018 Correction: Selection and targeting of EpCAM protein by ssDNA aptamer
2018 Current advances in aptamer-assisted technologies for detecting bacterial and fungal toxins
2018 Current advances in aptamer-assisted technologies for detecting bacterial and fungal toxins
2018 Thrombin Aptamer-Based Biosensors: A Model of the Electrical Response
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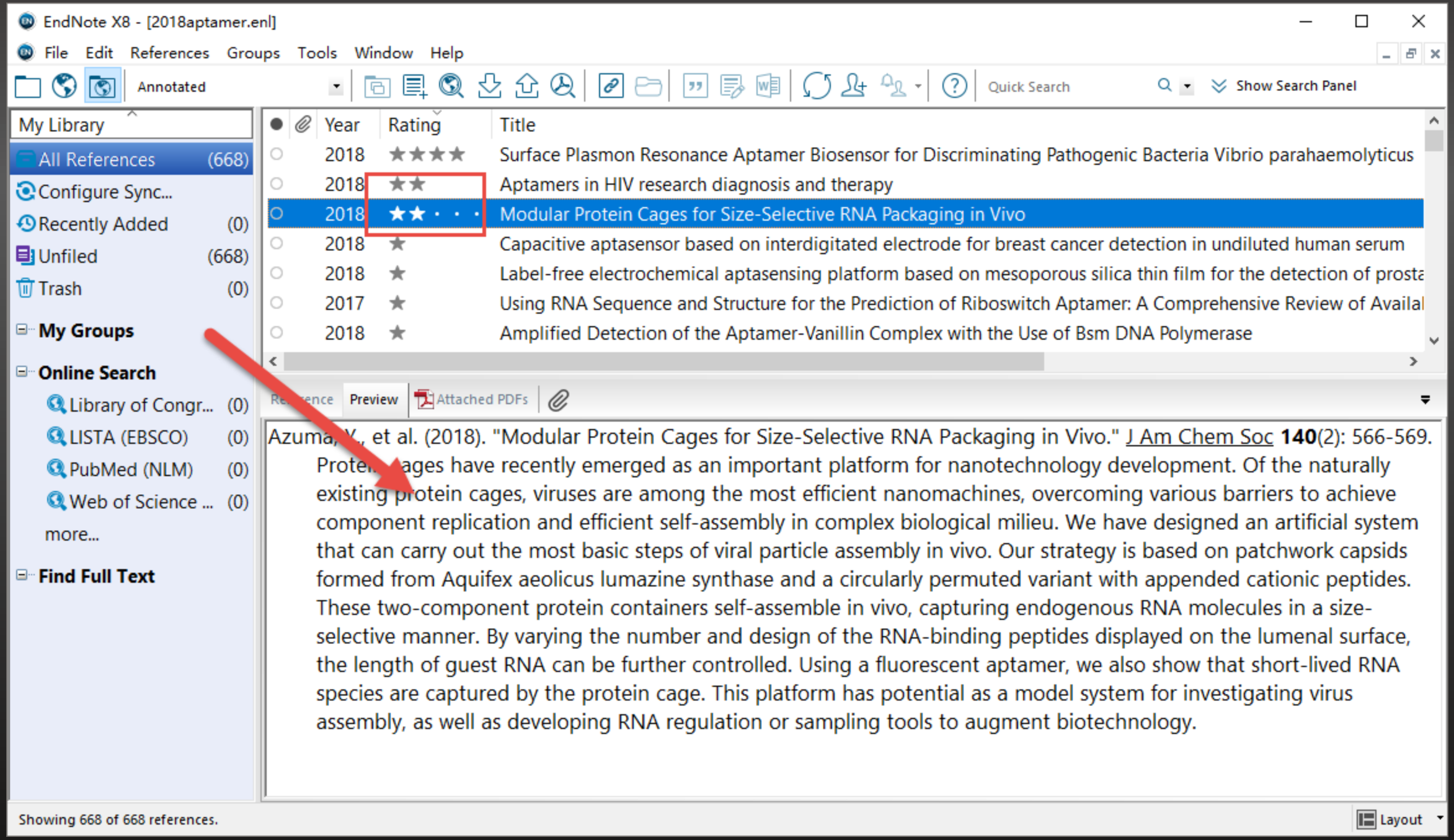
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2018 Surface Plasmon Resonance Aptamer Biosensor for Discriminating Pathogenic Bacteria Vibrio parahaemolyticus
2018 Aptamers in HIV research diagnosis and therapy
2018 Modular Protein Cages for Size-Selective RNA Packaging in Vivo
2018 Capacitive aptasensor based on interdigitated electrode for breast cancer detection in undiluted human serum
2018 Label-free electrochemical aptasensing platform based on mesoporous silica thin film for the detection of prosta
2017 Using RNA Sequence and Structure for the Prediction of Riboswitch Aptamer: A Comprehensive Review of Availal
2018 Amplified Detection of the Aptamer-Vanillin Complex with the Use of Bsm DNA Polymerase
Preview
Attached PDFs
Azuma, Y., et al. (2018). "Modular Protein Cages for Size-Selective RNA Packaging in Vivo." J Am Chem Soc 140(2): 566-569.
Protein cages have recently emerged as an important platform for nanotechnology development. Of the naturally existing protein cages, viruses are among the most efficient nanomachines, overcoming various barriers to achieve component replication and efficient self-assembly in complex biological milieu. We have designed an artificial system that can carry out the most basic steps of viral particle assembly in vivo. Our strategy is based on patchwork capsids formed from Aquifex aeolicus lumazine synthase and a circularly permuted variant with appended cationic peptides. These two-component protein containers self-assemble in vivo, capturing endogenous RNA molecules in a size-selective manner. By varying the number and design of the RNA-binding peptides displayed on the lumenal surface, the length of guest RNA can be further controlled. Using a fluorescent aptamer, we also show that short-lived RNA species are captured by the protein cage. This platform has potential as a model system for investigating virus assembly, as well as developing RNA regulation or sampling tools to augment biotechnology.
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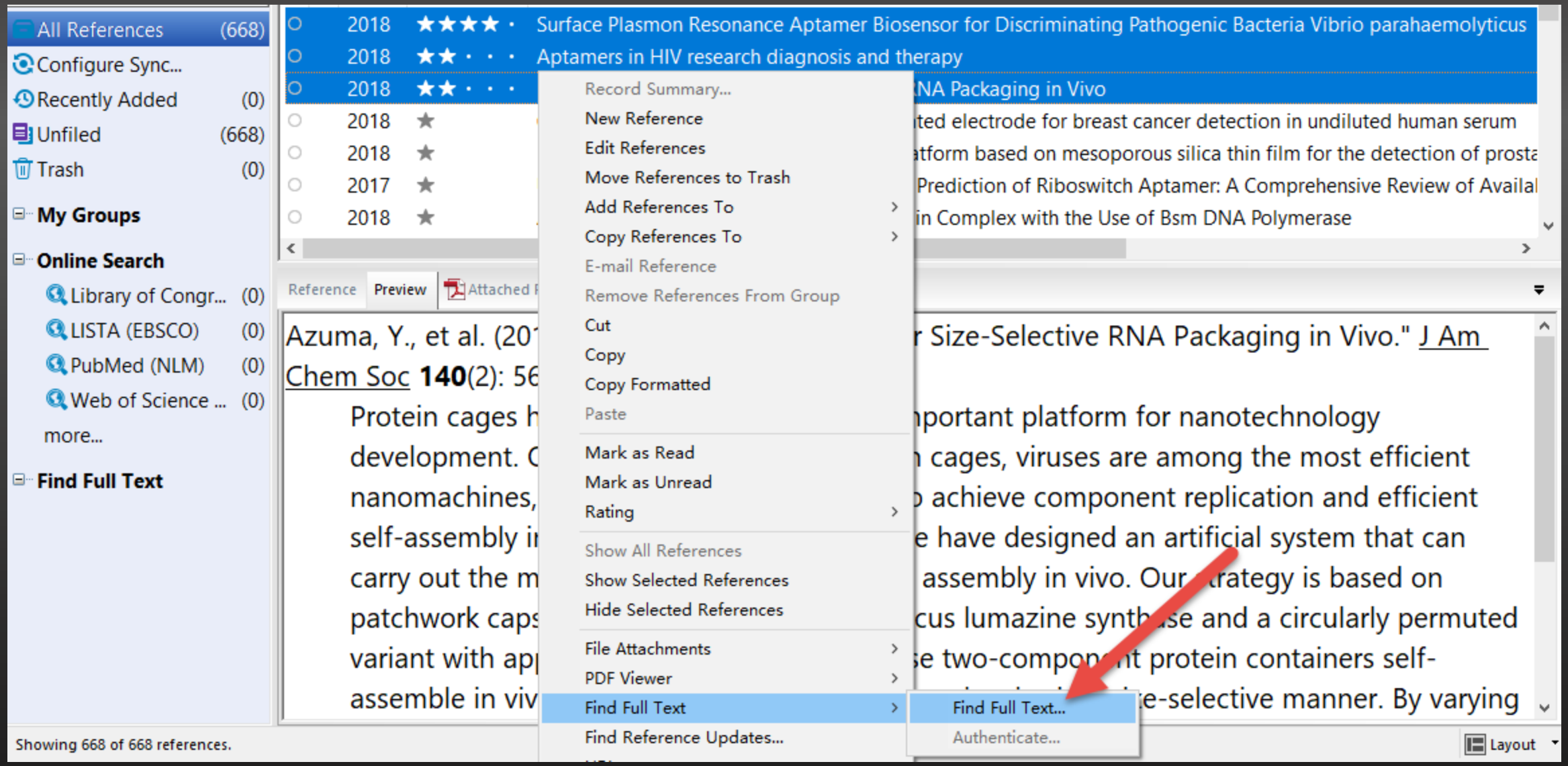
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Prediction of Riboswitch Aptamer: A Comprehensive Review of Availal
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Azuma, Y., et al. (20
Chem Soc 140(2): 56
Protein cages h
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achieve component replication and efficient
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assembly in vivo. Our strategy is based on
cus lumazine synthase and a circularly permuted
se two-component protein containers self-
e-selective manner. By varying
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Author	Recor...	Title	Resea
Link, D. R.;...	1	Assembly, useful in amplification reactions e.g. PCR, comprises droplet formation module, chamber comprising outlet, channel, analysis ...	bio-r
**Larson, J....	**2	**Microdroplet useful for detecting or analyzing target nucleic acids in a biological sample for diagnosis of a disease, comprises a ...	bio-r
**Link, D. R...	**3	**Pairing sample fluids to form a droplet or nanoreactor by providing a microfluidic substrate, flowing a sample fluid through an i...	bio-r
**Belgrade...	**4	**Analyzing nucleic acids from cells by providing nucleic acids derived from an individual cell and oligonucleotides having a comm...	bio-r
**Hindson, ...	**5	**Barcoding sample materi...mprising nucleic acid barcode molecules with components of sample...	bio-r
**Hindson, ...	**6	**Characterizing nucleic aci...g segment and bead of many oligonucleotides into partition, attachi...	bio-r
**Hindson, ...	**7	**Composition used e.g. in ... reactions, comprises capsules which are situated within droplets in a...	bio-r
**Hindson, ...	**8	**Composition used in nucl...detection of gene expression, comprises first microcapsule containin...	bio-r
**Watson, A.	**9	**Preparing nucleic acid for...nucleic acid into long fragment and short fragments, attaching an ad...	bio-r
**Kleinsch...	**10	**Reducing droplet molecul...emulsions involves providing microdroplets comprising biological or ...	bio-r
**Colston, ...	**11	**Sample i.e. clinical or envi...em for determining e.g. presence, of component e.g. nucleic acid, ha...	bio-r
**Fraden, S...	**12	**Manipulation of fluids and reactions in microfluidic system used in genetic analysis, involves flowing fluid and droplet of anothe...	bio-r
**Link, D. R...	**13	**Creating nanoreactor comprises providing a microfabricated substrate comprising electrically addressable channel bearing micr...	bio-r
**Link, D. R...	**14	**Microfluidic device to perform e.g. diagnostic assays, comprises microfabricated substrate with inlet channels to carry disperse...	bio-r
**Bharadw...	**15	**Method for manufacturing droplet generator, involves injection molding polymeric structure comprising network with three ch...	bio-r
Bharadwa...	16	Fluidic device for generating droplet of microcapsule, has polymeric structure having microfluidic channel network with third channel w...	bio-r
**Regev, A....	**17	**Producing a high resolution map for visualizing different cell subtypes or cell states in a heterogeneous population of cells invol...	bio-r
**Gaublom...	**18	**Assaying segregated cellular constituents comprises incubating the cellular constituents embedded in the polymer matrices wit...	bio-r
**Zheng, X.	**19	**Delivering reagents into individual cells comprises delivering capsules comprising reagents for altering expression of gene prod...	bio-r
Gordon, D...	20	Multiplex analysis of polypeptides in samples, comprises providing and segregating sample comprising cells or acellular system, labelin...	bio-r

文献

Reference | Preview | Attached PDFs

【1】 Link, D. R. & Link, D. Assembly, useful in amplification reactions e.g. PCR, comprises droplet formation module, chamber comprising outlet, channel, analysis module, and output nozzle, where chamber is configured to receive

Showing 1109 of 1109 references.

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		Title	Resea
		Assembly, useful in amplification reactions e.g. PCR, comprises droplet formation module, chamber comprising outlet, channel, analysis ...	bio-r
		Microdroplet useful for detecting or analyzing target nucleic acids in a biological sample for diagnosis of a disease, comprises a ...	bio-r
		Pairing sample fluids to form a droplet or nanoreactor by providing a microfluidic substrate, flowing a sample fluid through an i...	bio-r
		Analyzing nucleic acids from cells by providing nucleic acids derived from an individual cell and oligonucleotides having a comm...	bio-r
		Barcoding ic acid barcode molecules with components of sample...	bio-r
		Characteri bead of many oligonucleotides into partition, attachi...	bio-r
		Compositi prises capsules which are situated within droplets in a...	bio-r
		Compositi ne expression, comprises first microcapsule containin...	bio-r
		Preparing long fragment and short fragments, attaching an ad...	bio-r
		Reducing ves providing microdroplets comprising biological or ...	bio-r
		Sample i.e ning e.g. presence, of component e.g. nucleic acid, ha...	bio-r
		Manipulation of fluids and reactions in microfluidic system used in genetic analysis, involves flowing fluid and droplet of anothe...	bio-r
		Creating nanoreactor comprises providing a microfabricated substrate comprising electrically addressable channel bearing micr...	bio-r
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Regev, A....	**17**	**Producing a high resolution map for visualizing different cell subtypes or cell states in a heterogeneous population of cells invol...**	bio-r
Gaublom...	**18**	**Assaying segregated cellular constituents comprises incubating the cellular constituents embedded in the polymer matrices wit...**	bio-r
Zheng, X.	**19**	**Delivering reagents into individual cells comprises delivering capsules comprising reagents for altering expression of gene prod...**	bio-r
Gordon, D...	20	Multiplex analysis of polypeptides in samples, comprises providing and segregating sample comprising cells or acellular system, labelin...	bio-r

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Reference | Preview | Attached PDFs

【1】 Link, D. R. & Link, D. Assembly, useful in amplification reactions e.g. PCR, comprises droplet formation module, chamber comprising outlet, channel, analysis module, and output nozzle, where chamber is configured to receive

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droplet ...

1 Link, D. R. & Link, D. Assembly, useful in amplification reactions e.g. PCR, comprises droplet formation module, chamber comprising outlet, channel, analysis module, and output nozzle, where chamber is configured to receive droplets and immiscible fluid. WO2014165559-A2; WO2014165559-A3; EP2981349-A2; EP2981349-A4.

2 Larson, J. W. *et al.* Microdroplet useful for detecting or analyzing target nucleic acids in a biological sample for diagnosis of a disease, comprises a single nucleic acid template, and primer pairs specific for multiple target sites on template. WO2011100604-A2; US2011244455-A1; US2011250597-A1; CA2789425-A1; US2012302448-A1; EP2534267-A2; JP2013521764-W; US2013196324-A1; US2013224751-A1; US8535889-B2; WO2011100604-A3; US2014329239-A1; US9074242-B2; US9127310-B2; US9228229-B2; JP5934657-B2; US9399797-B2; US2016222433-A1; JP2016146845-A; US9441266-B2; US2013295568-A1; US9494520-B2; US2017002400-A1; US9745617-B2; EP2534267-A4; JP6263225-B2.

3 Link, D. R. *et al.* Pairing sample fluids to form a droplet or nanoreactor by providing a microfluidic substrate, flowing a sample fluid through an inlet channel and providing channel dimensions. WO2007133710-A2; US2008003142-A1; US2008014589-A1; WO20[illegible]-A2; EP2047910-A2; EP2047910-A3; JP2010506136-W; EP2047910-B1; EP2481815-A1; EP2530167-A1; EP2530168-A1; JP2[illegible]639-A1; US2013260447-A1; US2014045712-A1; JP2015142586-A; EP2530168-B1; EP2481815-B1; US9273308-B2; EP3031918-A1; J[illegible]A1; US2017304785-A1; US9896722-B2.

4 Belgrader, P. *et al.* Analyzing nucleic acids from cells by providing n[illegible]ing a common barcode sequence into a discrete partition, and generating first nucleic acid sequences. US2015376609-A1; WO2015[illegible]48-A1; CA2953374-A1; KR2017020704-A; EP3161160-A2; CN106795553-A; IN201717002396-A; JP2017522867-W; MX201601[illegible]

5 Hindson, B. *et al.* Barcoding sample materials, by co-partitioning par[illegible]f sample material into second partition, releasing molecules into second partition, and attaching molecules to components. WO2014210[illegible]; EP3013957-A2; KR2016032723-A; CN105492607-A; JP2016526889-W; MX2015016968-A1; BR112015032512-A2; IL242951-A1.

6 Hindson, B. *et al.* Characterizing nucleic acid segment includes co-partitioning segment and bead of many oligonucleotides into partition, attaching oligonucleotides to fragments, and sequencing and characterizing fragments or copies of portions of segment. US2014378322-A1.

7 Hindson, B. *et al.* Composition used e.g. in performing nucleic acid synthesis reactions, comprises capsules which are situated within droplets in an emulsion, where capsules are configured to release their contents into droplets upon application of stimulus. WO2014124336-A2; WO2014124336-A3; CA2900543-A1; EP2954065-A2; US2016304860-A1; US2014227684-A1; US9644204-B2; US2017362587-A1.

8 Hindson, B. *et al.* Composition used in nucleic-acid-based sequencing and in detection of gene expression, comprises first microcapsule containing oligonucleotide barcode, and is degradable upon application of stimulus to first microcapsule. WO2014028537-A1; US2014155295-A1; US2014235506-A1; US2014287963-A1; US2014378345-A1; US2014378349-A1; US2014378350-A1; US2015005199-A1; US2015005200-A1; AU2013302756-A1; CA2881685-A1; KR2015048158-A; EP2885418-A1; IN201501126-P1; US2015224466-A1; US2015225777-A1; US2015225778-A1; JP2015528283-W; CN104769127-A; MX2015001939-A1; US2017114390-A1; US9689024-B2; US9695468-B2; US9701998-B2; EP2885418-A4; BR112015003354-A2; US2017321252-A1; US2017335385-A1; US2017342404-A1; US2017356027-A1; US2018016634-A1; US2018030512-A1; AU2013302756-B2.

9 Watson, A. Preparing nucleic acid for analysis comprises fragmenting nucleic acid into long fragment and short fragments, attaching an adaptor to each ends of short fragments, and hybridizing the short fragments to the long fragments. WO2013126741-A1; US2013225418-A1; EP2817418-A1; US9176031-B2; EP2817418-A4; EP2817418-B1.

1 Link，DR＆Link，D。在扩增反应例如PCR中有用的组装包括液滴形成模块，包括出口，通道，分析模块和输出喷嘴的腔室，其中腔室被配置为接收液滴和不混溶流体。WO2014165559-A2; WO2014165559-A3; EP2981349-A2; EP2981349-A4。

2 Larson，JW 等人 用于检测或分析生物样品中的靶核酸以诊断疾病的微滴包含单个核酸模板和特异于模板上多个靶位点的引物对。WO2011100604-A2; US2011244455-A1; US2011250597-A1; CA2789425-A1; US2012302448-A1; EP2534267-A2; JP2013521764-W; US2013196324-A1; US2013224751-A1; US8535889-B2; WO2011100604-A3; US2014329239-A1; US9074242-B2; US9127310-B2; US9228229-B2; JP5934657-B2; US9399797-B2; US2016222433-A1; JP2016146845-A; US9441266-B2; US2013295568-A1; US9494520-B2; US2017002400-A1; US9745617-B2; EP2534267-A4; JP6263225-B2。

3 Link，DR 等人 通过提供微流体基质使样品流体流过以形成液滴[redacted]2007133710-A2; US2008003142-A1; US2008014589-A1; WO2007133710-A3; WO2008063227-A2; WO2008063227-A3; EP20[redacted]47910-B1; EP2481815-A1; EP2530167-A1; EP2530168-A1; JP2013015536-A; US2013090248-A1; US2013183659-A1; US201321[redacted]; EP2530168-B1; EP2481815-B1; US9273308-B2; EP3031918-A1; JP6023252-B2; JP2017006145-A; US9562837-B2; US2017183722[redacted]

4 Belgrader，P.et *al*。通过将来自单个细胞的核酸和具有共同条形码[redacted]来自细胞的核酸。US2015376609-A1; WO2015200893-A2; WO2015200893-A3; WO2015200893-A9; AU2015279548-A1; CA29[redacted]201717002396-A; JP2017522867-W; MX2016016902-A1; BR112016030602-A2; EP3161160-A4。

5 Hindson，B。等人 通过将包含核酸条形码分子的分区与样品材料的组分共同分配到第二分区中，将分子释放到第二分区中，以及将分子附着到组分上，从而对样品材料进行条形码化。WO2014210353-A2; WO2014210353-A3; CA2915499-A1; AU2014302277-A1; EP3013957-A2; KR2016032723-A; CN105492607-A; JP2016526889-W; MX2015016968-A1; BR112015032512-A2; IL242951-A1。

6 Hindson，B。等人 表征核酸片段包括将许多寡核苷酸的片段和珠子共同分配到分区中，将寡核苷酸附着到片段上，并测序和表征片段或部分片段的拷贝。US2014378322-A1。

7 Hindson，B。等人 用于例如执行核酸合成反应的组合物包含位于乳液中的液滴内的胶囊，其中胶囊被配置为在施加刺激时将其内容物释放到液滴中。WO2014124336-A2; WO2014124336-A3; CA2900543-A1; EP2954065-A2; US2016304860-A1; US2014227684-A1; US9644204-B2; US2017362587-A1。

8 Hindson，B。等人 用于基于核酸的测序和检测基因表达的组合物包含含有寡核苷酸条形码的第一微胶囊，并且在对第一微胶囊施加刺激时可降解。WO2014028537-A1; US2014155295-A1; US2014235506-A1; US2014287963-A1; US2014378345-A1; US2014378349-A1; US2014378350-A1; US2015005199-A1; US2015005200-A1; AU2013302756-A1; CA2881685-A1; KR2015048158-A; EP2885418-A1; IN201501126-P1; US2015224466-A1; US2015225777-A1; US2015225778-A1; JP2015528283-W; CN104769127-A; MX2015001939-A1; US2017114390-A1; US9689024-B2; US9695468-B2; US9701998-B2; EP2885418-A4; BR112015003354-A2; US2017321252-A1; US2017335385-A1; US2017342404-A1; US2017356027-A1; US2018016634-A1; US2018030512-A1; AU2013302756-B2。

准备用于分析的核酸包括将核酸片段化成长片段和短片段，将接头连接到短片段的每个末端，并将短片段与长片段杂交。WO2013126741-A1; US2013225418-A1; EP2817418-A1; US9176031-B2; EP2817418-A4; EP2817418-B1。

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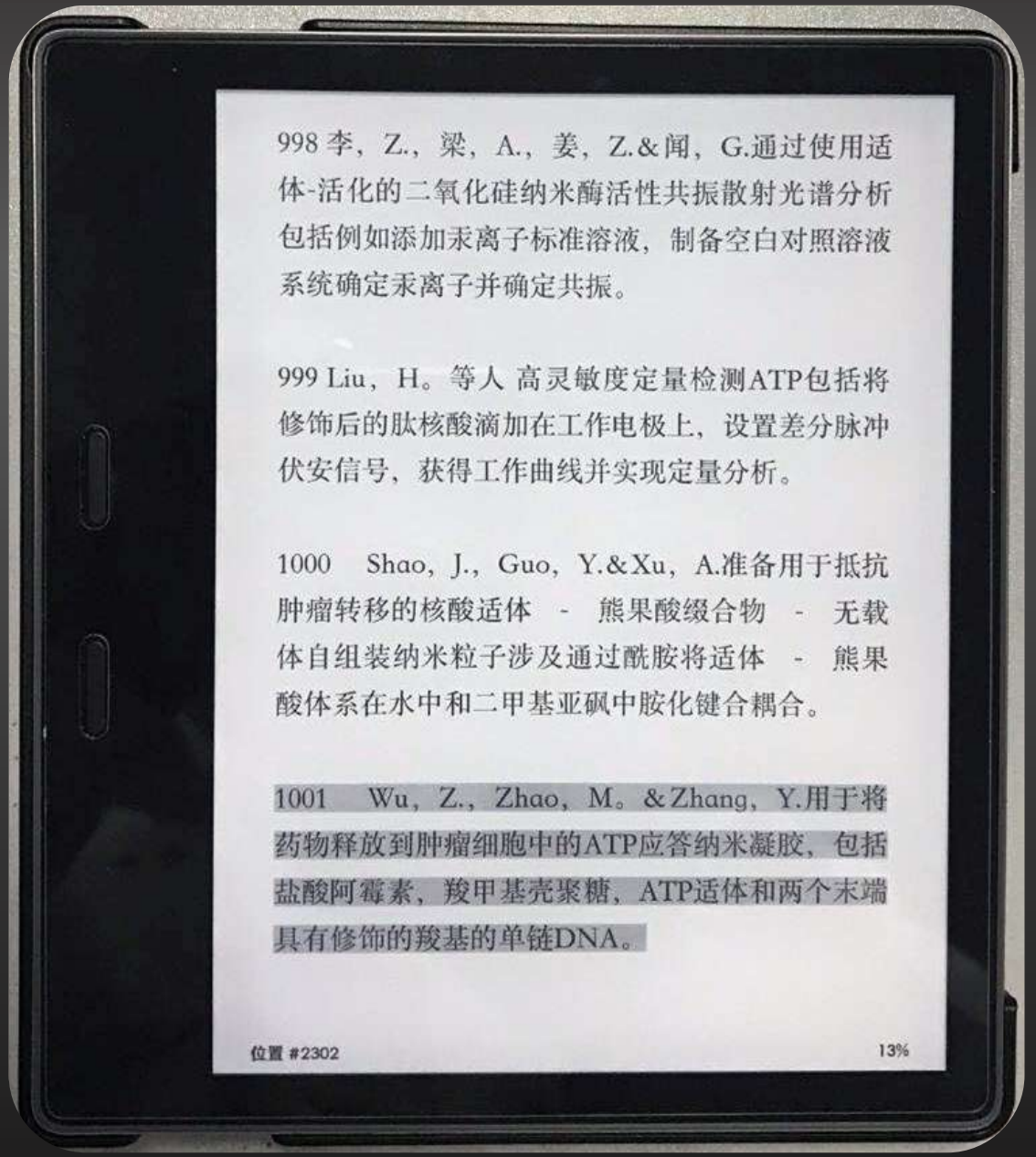

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1. WO2018039147-A1 — Citing Patents: 0
Inhibiting neurodegenera... that prevents alpha-synuclein pre-formed fibrils from bindi...
Assignee: UNIV JOHNS HOP... TH SYSTEM HIGH
Inventor(s): ALBERTO VIGNA...
Derwent Primary Accession Number: 2018-178301
Original...

2. WO201803... — Citing Patents: 0
Scaffold ... ell, used in regenerative medicine,...
Assignee: N...
Inventor(s):...
Derwent Pri...
Original...

3. US2018055883-A1; WO2018037085-A1 — Citing Patents: 0
New peptide having specific amino acid sequences, useful for diagnosing and/or treating cancer, e.g. head and neck squamous cell carcinoma, acute myelogenous leukemia, breast cancer, bile duct cancer and brain cancer

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EndNote X8 - [2018 aptamer patents.enl]

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	127	Characterizing prostate disorder comprises determining presence or level of biomarker in a biological sample from a subject, ide...	
	128	New isolated pore-forming polypeptide comprises a naturally-occurring plugging module and a naturally-occurring pore domai...	
	129	New bivalent antisense oligonucleotide, useful for modulating microRNA regulation either by blocking microRNA or by blockin...	
	130	New aptamer specifically combined with erythropoietin (EPO), useful for preventing a condition caused by a compound cut by e...	
	131	Theranosing disease e.g. cancer, immune disease involves identifying biosignature comprising cell-specific/disease-specific/gen...	
	132	Detecting side effect of drug useful for identifying drug-specific organ specific molecular blood fingerprints, involves measurin...	
	133	Screening molecule capable of binding to cluster of differentiation 4 to treat autoimmune disease by determining whether cand...	
	134	Functionalized chromophoric polymer dots useful for producing fluorescent probes for biological systems, comprise a chromop...	
	135	Determining the concentration of a protein comprises providing protein, protein probes comprising a capture region and a nan...	
	136	Use of leucine-rich alpha-2-glycoprotein 1 antagonist e.g. monoclonal antibody in treatment or prevention of vascular prolifera...	
	137	New tumor marker, used as a marker for detecting, diagnosing, graduating, monitoring or prognosticating a neoplastic disease	
	138	New nucleosides useful as intermediate for preparing oligonucleotide for inhibiting the expression of target gene in cell, and sil...	
	139	Composition useful in pharmaceuticals for treating disease, drug delivery system for delivering active agent and disease diagno...	
	140	Decreasing infection in cell by pathogen comprises decreasing expression or activity of e.g. eukaryotic translation initiation fact...	
	141	Biomarker useful for diagnosing mental illness e.g. cognitive dysfunction and Alzheimer's disease, comprises protein or peptide ...	
	142	System useful for detecting analytes in a sample, comprises a sample collection device for mixing patient sample with immunor...	
	143	Particle, useful to deliver agent e.g. hydrophobic drug to treat e.g. cancer and inflammatory disease, comprises a buffering com...	

Reference | Preview | Attached PDFs

【1】 Improvement of gene replacement efficiency involves synthesizing single-stranded sequences of aptamer and DNA donor containing Cas9-specific binding capacity, constructing Cas9-gRNA plasmid and subjecting to gene replacement. CN105861485-A.

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如何快速了解一个领域

- 牛人意识：找最有价值的资料和人
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重要提示

- 真正深入理解一个领域的瓶颈，前沿等，需要长时间的积累，非一日之功。以上工具、资源和方法只是会提升你的效率，不能代替我们阅读大量的文献。你仍需要持续积累，持续努力。

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20180320 DARPins骨架蛋白的第七轮筛选（DNas...

何磊 52 分钟前 /何磊/DARPins骨架蛋白筛选/

V、实验结论； I、实验目的 DARPins骨架蛋白的第七轮筛选（DNaseI &Benzonase） II、实验材料 Tris buffer（25 o CPH7.5...

20180320 DARP第一轮筛选扩增，单链重新制备

韦唯 6 小时前 /韦唯/DARP骨架蛋白/

V、实验结论 今天的条带很亮 I、实验目的 DARPins骨架蛋白的第一轮筛选（酶酶切法）， 单链重新制备 II、实验材料 Tris buffe...

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20180319 DARPins骨架蛋白第五轮筛选（lib...

王进军 昨天 /王进军/DARPins 骨架蛋白筛选及鉴定/

为知笔记个人主页

20180315 工作日志 705...

20180320 DARP第一轮...

20180320 DARP第一轮筛选扩增，单链重新制

编辑

字数：491 大小：3.03 KB

I、实验目的

1. DARPins骨架蛋白的第一轮筛选（酶酶切法），单链重新制备

II、实验材料

1. Tris buffer（25°CPH7.5 10mMTris-HCl，2.5mM MgCl2， 0.5mM CaCl2， 150mM NaCl）；
2. lib28
3. DARPins蛋白（0.37mg/ml ）；

III、实验方法

1. 将单链取10uL加入到2ml大扩ePCRmix里，混匀，再加入8ml EM 90 oil，涡旋1min，制备乳浊液。（注意事项：需要先将elution与ePCRmix混合均匀，用枪转移到50ml离心管底，再将EM 90 oil沿管壁加入到离心管中。因EM 90 oil的粘度比较大，用枪转移的时候需要剪枪头。在此步骤中，尽量不要产生气泡，不然对产生液滴有影响。涡旋的时候，需要用大功率的涡旋仪，将离心管垂直放在

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00 2018 中心工作

20121212 SA CE-SELEX 收集样品的Q-PCR扩增
rmraustc 12/15/2012 /
20121212 SA CE-SELEX 收集样品的Q-PCR扩增 四、实验结论 1、第一次筛选的1-3号，和1-10，以及第二次筛选的2-1、2-4、2-...

20121212 SA CE-SELEX 收集样品的Q-PCR扩增
12/15/2012 /2010-14年笔记/002科学研究/2012 New CE-SE...
20121212 SA CE-SELEX 收集样品的Q-PCR扩增 四、实验结论 1、第一次筛选的1-3号，和1-10，以及第二次筛选的2-1、2-4、...

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20121212 SA SE-SELEX 四、实验结论 1、CE-SELEX 筛选，连续多次收集可行； 2、用矿物油覆盖，降低污染有效； 3、收集...

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20121212 SA SE-SELEX 四、实验结论 1、CE-SELEX 筛选，连续多次收集可行； 2、用矿物油覆盖，降低污染有效； 3、收集时，...

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rmraustc 12/12/2012 /

20121212 SA CE-SELEX 收集样品的Q-PCR扩 编辑 2

字数：532 大小：96.5 KB

四、实验结论

1、第一次筛选的1-3号，和1-10，以及第二次筛选的2-1、2-4、2-22有可能是复合物所在位置。取1-3、1-10进行放大扩增制备单链，并进行亲和力检测。

2、连续两次筛选，第二次污染要比第一次大4倍；

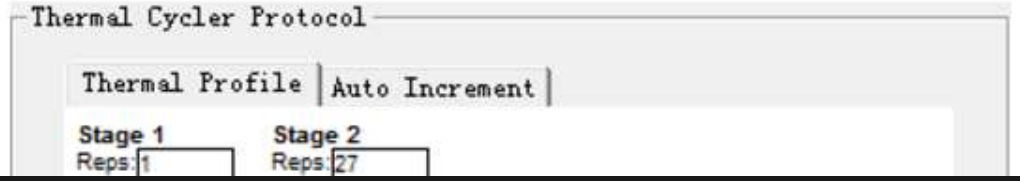
一、实验目的

了解新的CE-SELEX筛选方法收集的样品情况，并判断收集是否成功，并决定下一步扩增的样品选择哪一个。

二、实验材料与方法

1、PCR mix为12月8日在工程学院配制；模板为12日筛选收集的样品；

2、扩增条件



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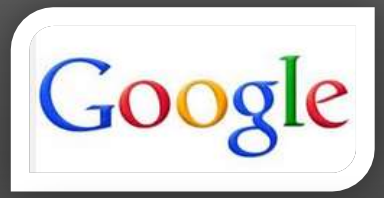

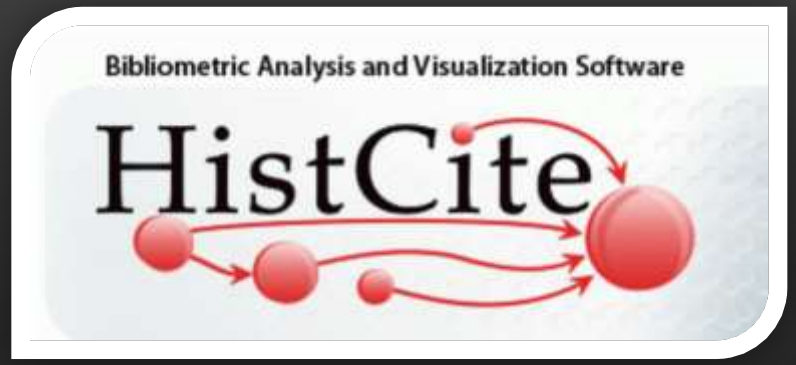

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