

DISSABS

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|--|--|-------------------------------|-------------------------------------|--|--|--|--|--------------------------|-------------|--------------------------|--|----------------------------------|-------------------------------------|-----------------------|-------------------------------------|--|-------------------|--------------------------|------------|--------------------------|--|
| Subject Coverage | <p>All subject areas are covered, including:</p> <ul style="list-style-type: none"> • Agriculture and Food Science • Bioscience and Biotechnology • Business • Chemistry • Education • Electronics and Telecommunications • Engineering and Construction • Geosciences • Health and Safety • Materials Science • Mathematics and Computer Science • Multidisciplinary Science and Technology • Pharmaceuticals • Physics • Social Sciences | | | | | | | | | | | | | | | | | | | | |
| File Type | Bibliographic | | | | | | | | | | | | | | | | | | | | |
| Features | <table border="0" style="width: 100%;"> <tr> <td>Alerts (SDIs)</td> <td>Monthly</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CAS Registry Number[®] Identifiers</td> <td><input type="checkbox"/></td> <td>Page Images</td> <td><input type="checkbox"/></td> <td>STN[®] AnaVist[™] <input type="checkbox"/></td> </tr> <tr> <td>Keep & Share</td> <td><input checked="" type="checkbox"/></td> <td>SLART</td> <td><input checked="" type="checkbox"/></td> <td>STN Easy[®] <input type="checkbox"/></td> </tr> <tr> <td>Learning Database</td> <td><input type="checkbox"/></td> <td>Structures</td> <td><input type="checkbox"/></td> <td></td> </tr> </table> | Alerts (SDIs) | Monthly | | | | CAS Registry Number [®] Identifiers | <input type="checkbox"/> | Page Images | <input type="checkbox"/> | STN [®] AnaVist [™] <input type="checkbox"/> | Keep & Share | <input checked="" type="checkbox"/> | SLART | <input checked="" type="checkbox"/> | STN Easy [®] <input type="checkbox"/> | Learning Database | <input type="checkbox"/> | Structures | <input type="checkbox"/> | |
| Alerts (SDIs) | Monthly | | | | | | | | | | | | | | | | | | | | |
| CAS Registry Number [®] Identifiers | <input type="checkbox"/> | Page Images | <input type="checkbox"/> | STN [®] AnaVist [™] <input type="checkbox"/> | | | | | | | | | | | | | | | | | |
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| Record Content | <ul style="list-style-type: none"> • DISSABS (Dissertation Abstracts) is a bibliographic database from ProQuest Information and Learning Company that contains the definitive guide to subject, title, and author for nearly every dissertation granted at accredited North American universities since 1861. Selected master's theses from 1962 and dissertations from other institutions worldwide are included in the database. • The records in this file contain bibliographic information, broad subject indexing, and abstracts. Abstracts are included for records beginning with <i>Dissertation Abstracts International</i>, July 1980, Volume 41, Number 1, and with <i>Masters Abstracts International</i>, Spring 1988, Volume 26, Number 1. | | | | | | | | | | | | | | | | | | | | |
| File Size | More than 3.1 million records (7/2017) | | | | | | | | | | | | | | | | | | | | |
| Coverage | <ul style="list-style-type: none"> • 1861 to the present for dissertations • 1962 to the present for master's theses | | | | | | | | | | | | | | | | | | | | |
| Updates | Updated monthly with more than 6,000 records | | | | | | | | | | | | | | | | | | | | |
| Language | English | | | | | | | | | | | | | | | | | | | | |
| Database Producer | <p>ProQuest UMI Dissertation Publishing 789 E. Eisenhower Parkway, P O Box 1346 Ann Arbor, MI 48106-1346 USA Phone: 800-521-0600 Fax: 734-761-9836 Web: http://www.proquest.com Email: disspub@proquest.com</p> | | | | | | | | | | | | | | | | | | | | |

Sources

- Dissertation Abstracts International
 - Comprehensive Dissertation Index
 - *Masters Abstracts International*
 - American Doctoral Dissertations
-

User Aids

- Online Helps (HELP DIRECTORY lists all help messages available)
 - STNGUIDE
-

Clusters

- AEROTECH
- AGRICULTURE
- ALLBIB
- AUTHORS
- BIOSCIENCE
- BUSINESS
- CHEMENG
- CHEMISTRY
- COMPUTER
- CORPSOURCE
- ELECTRICAL
- ENGINEERING
- ENVIRONMENT
- FOOD
- FUELS
- GEOSCIENCE
- HEALTH
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- MEDICINE
- PHARMACOLOGY
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- POLYMERS
- RESEARCH
- RFTOOLS
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Pricing

Enter HELP COST at an arrow prompt (=>).

Search and Display Field Codes

The fields that allow left truncation (/BI, /TI) in this file are indicated by an asterisk (*).

| Search Field Name | Search Code | Search Examples | Display Codes |
|---|------------------|--|---------------|
| Basic Index* (contains single words from the title and the abstract) | None (or /BI) | S MODEL# S SPIN LATTICE/BI S ?PLASTIC? | AB, TI |
| Abstract | /AB | S SYNTHESIS/AB S ?VALENC?/AB | AB |
| Accession Number | /AN | S 92:106/AN | AN |
| Author/Advisor | /AU | S GILPIN, R?/AU | AU |
| Author Identifier | /AUID | S 0000-0003-4978-6051/AUID | AUID |
| Classification Code (1) (Descriptor) (code and text) | /CC | S ENGINEERING/CC S AEROSPACE ENGINEERING/CC S 0538/CC | CC |
| Corporate Source/Institution (1) (code and text) | /CS | S DUKE/CS S PACIFIC UNIV?/CS S 0173/CS | CS |
| Entry Date (2,3) | /ED | S ED>=921231 | ED |
| Field Availability | /FA | S AB/FA | Not displayed |
| File Segment (code and text) | /FS | S MAI/FS S MASTERS ABSTRACTS INTERNATIONAL/FS | FS |
| International Standard (Document) Number (contains ISBN) | /ISN | S 0-315-61037-9/ISN | ISN, SO |
| Journal Title | /JT | S AMERICAN DOCTORAL DISSERTATION/JT | JT, SO |
| Language (code and text) | /LA | S ENGLISH/LA S EN/LA | LA |
| Publication Date (2) | /PD | S 1992000/PD | SO |
| Publication Year (2) | /PY | S 1950/PY | PY |
| Source (contains journal title, collation, publication date, publisher, no. of pages, order number, and ISBN) | /SO | S (MASTERS (L) VOL 30)/SO S 0-315-61037-9/SO S AAR1347307/SO | ISN, JT, SO |
| Title* | /TI | S DISTORT? ISOMER?/TI S ?CYCLIC?/TI | TI |
| Update Date (2) | /UP | S UP>20121231 | UP |

(1) Search with implied (S) proximity is available in this field.

(2) Numeric search field that may be searched using numeric operators or ranges.

(3) No ED available for records covering November 1997-October 2003 when the file was absent from STN.

DISSABS**DISPLAY and PRINT Formats**

Any combination of display fields and formats may be used to display or print answers. Multiple codes must be separated by commas or spaces, e.g., D L1 1-5 TI AU. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for all searchable fields, except PY. Highlighting must be ON during SEARCH in order to use the HIT, KWIC, and OCC formats.

| Format | Content | Examples |
|---|---|--|
| AB AN AU AUID CC CS ED FS ISN JT LA PY SO TI UP | Abstract Accession Number Author/Advisor Author Identifier Classification Code (Descriptor) Corporate Source/Institution Entry Date File Segment International Standard (Document) Number (ISBN) Journal Title Language Publication Year Source Title Update Date | D L4 1-4 AB D L1 3 AN D AU CS 1,3-5 D AU AUID 1 D CC 5-10 D 1-3,7,8 CS SO D 6 ED D FS 1-5 D L1 ISN 3 D 1,3,6,8 JT L5 D LA D L8 PY 1-3 D 1 4 SO D L1 TI AB D 5 UP |
| ABS ALL BIB CBIB IALL IBIB IND SAM SCAN | AB AN, TI, AU, AUID, CS, SO, FS, LA, AB, CC AN, TI, AU, AUID, CS, SO, FS, LA (default) Compressed bibliographic information ALL, indented with text labels BIB, indented with text labels CC TI, CC TI, CC (random display without answer numbers) | D AB D 1, 3, 5 ALL D 1-10 BIB D CBIB D IALL D 1-3,5 IBIB D L3 2 IND D SAM D SCAN |
| HIT KWIC OCC | Fields containing hit terms Hit terms with 20 words on either side (KeyWord-In-Context) Number of occurrences of hit terms and fields in which they occur | D 1 5 10 HIT D KWIC D OCC |

SELECT and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

| Field Name | Field Code | SELECT(1) | SORT |
|--|------------|-------------|------|
| Abstract | AB | Y (2) | N |
| Accession Number | AN | Y | N |
| Author/Advisor | AU | Y | Y |
| Author Identifier | AUID | Y | Y |
| Classification Code (Descriptor) | CC | Y | Y |
| Corporate Source/Institution | CS | Y | Y |
| Document Type | DT | Y | Y |
| Entry Date | ED | Y | Y |
| File Segment | FS | Y | Y |
| International Standard Book Number | ISBN | N | Y |
| International Standard (Document) Number | ISN | Y | Y |
| Journal Title | JT | Y | Y |
| Language | LA | Y | Y |
| Occurrence of Hit Terms | OCC | N | Y |
| Publication Date | PD | Y | Y |
| Publication Year | PY | Y (4) | Y |
| Source | SO | Y (5) | N |
| Title | TI | Y (default) | Y |
| Update Date | UP | Y | Y |

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
- (2) Appends /BI.
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- (4) SELECT HIT is not valid with this field.
- (5) Selects ISBN with /SO appended.

Sample Records

DISPLAY IBIB

ACCESSION NUMBER: 2017:88719 DISSABS Order Number: AAI10268911
 TITLE: Fabrication and Applications of Multifunctional Superhydrophobic Surfaces Based on Surface Chemistry and Morphology
 AUTHOR: Liu, Yang [Ph.D.]; Lyons, Alan M. [advisor]
 AUTHOR ID: ORCID: <https://orcid.org/0000-0003-4978-6051>
 CORPORATE SOURCE: City University of New York (0046)
 SOURCE: Dissertation Abstracts International, (2017) Vol. 78, No. 9B(E). Order No.: AAI10268911. ProQuest Dissertations & Theses. 201 pages.
 ISBN: 978-1-369-74659-4.
 DOCUMENT TYPE: Dissertation
 FILE SEGMENT: DAI
 LANGUAGE: English
 ENTRY DATE: Entered STN: 20170705
 Last Updated on STN: 20170705

DISPLAY ALL

L3 ANSWER 300 OF 506 DISSABS COPYRIGHT (C) 2017 ProQuest Information and Learning Company; All Rights Reserved on STN
 AN 2017:79825 DISSABS Order Number: AAI10249874
 TI Iron uptake in symbiosis: The role of siderophore in the association between *Vibrio fischeri* and *Euprymna scolopes*
 AU DaSilva, Evan [M.S.]; Whistler, Cheryl A. [advisor]
 AUID ORCID: <https://orcid.org/0000-0002-4186-0272>
 CS University of New Hampshire (0141)
 SO Masters Abstracts International, (2016) Vol. 56, No. 3(E). Order No.: AAI10249874. ProQuest Dissertations & Theses. 76 pages.
 ISBN: 978-1-369-51560-2.
 DT Dissertation
 FS MAI
 LA English
 ED Entered STN: 20170523
 Last Updated on STN: 20170523
 AB Iron acquisition is well studied in pathogens, and successful virulence is often attributed to iron acquisition by siderophore and heme uptake; however, the role of iron uptake in mutual symbiotic interactions is not as well understood. The mutual symbiosis between *Vibrio fischeri* and the Hawaiian bobtail squid, *Euprymna scolopes*, is a well-characterized system in which iron uptake has been implicated as a symbiotic factor. Four studies have implicated iron uptake in the symbiosis: 1) A TnLux reporter assay revealed that siderophore is more highly expressed by *V. fischeri* in the light organs of juvenile squid compared to *V. fischeri* in liquid culture; 2) Microarray data showed that genes for siderophore production are upregulated in the light organs of adult squid; 3) A siderophore deficient *glnD* mutant of *V. fischeri* had a persistence defect in the light organ that was complemented by addition of iron to the seawater; and 4) A *V. fischeri* mutant in which the heme uptake locus was deleted had a persistence defect in the squid light organ that was apparent in competition with the ancestor strain *V. fischeri* ES114. I hypothesize that iron uptake by siderophore is necessary for persistence of *V. fischeri* in the squid light organ, complementary to heme uptake, and that due to the toxic nature of iron, sequestration by siderophore contributes oxidative stress response.
 To assess the role of iron uptake in the interaction between *V. fischeri* and the Hawaiian bobtail squid we utilized several strategies: 1) I identified iron uptake systems available to *V. fischeri* by bioinformatically comparing known iron uptake systems against the genome; 2) To reveal potential avenues by which iron uptake is regulated in *V. fischeri*, we identified genes that influence siderophore biosynthesis by screening a transposon mutant library for siderophore phenotypes; 3) I assessed the physiological role, in growth and oxidative response, of several of the iron uptake genes previously identified; and 4) I directly

assessed the symbiotic ability of mutants deficient in iron uptake.

The bioinformatic search revealed several siderophore uptake systems, as well as the previously described heme uptake system; however, only one siderophore biosynthesis system, for aerobactin, was identified. In screening the mutant library, I identified many genes in the flagellar locus and the cellular biosynthesis locus that positively influence siderophore production as well as two quorum sensing genes, AinS and RpoQ, and several cell wall biogenesis/oxidative sensing genes that negatively influence siderophore production. We determined that aerobactin biosynthesis does not contribute to oxidative stress response but does contribute to growth in iron limiting conditions, suggesting a purely nutritional role for siderophore in the symbiosis. When we tested the symbiotic ability of an *iucA* mutant deficient in siderophore, we could not demonstrate a persistence defect; however, we did find that two siderophore uptake mutants have a competitive defect 24 hours after inoculation, suggesting that siderophore contributes to symbiotic fitness. These findings suggest that regulation of iron uptake in *V. fischeri* involves more than just response to iron levels, and that iron uptake regulation is intertwined with symbiotically relevant traits. Due to the monospecific nature of the symbiosis, it is unlikely that the non-aerobactin uptake systems contribute to the symbiotic ability of *V. fischeri*; however, it is clear that aerobactin does contribute to symbiotic ability by conferring a growth advantage over other strains deficient in aerobactin uptake.

CC 0307 Biology, Molecular; 0369 Biology, Genetics; 0410 Biology, Microbiology

DISPLAY SAM

TI SOLAR ENERGY AS A POTENTIAL HEAT SOURCE FOR THE HEAT PUMP
CC 0548 ENGINEERING, MECHANICAL; 0791 ENERGY

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Fax: +49-7247-808-259
Email: helpdesk@fiz-karlsruhe.de
Internet: www.stn-international.com

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Tokyo 113-0021, Japan
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customer@jaici.or.jp (Customer Service)
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