

## SBU INDIVIDUAL DEVELOPMENT PLAN TEMPLATE

Name:

Date: 10/15/14

Supervisor/Mentor(s):

Program/Dept: Chemistry

Years at SBU: 5<sup>th</sup> year Grad student

*Adapt and complete this template to suit your work and organizational style. Delete any module that does not apply. Adjust or rename any columns. For each set of activities, comment on any obstacles you see that could impact your ability to accomplish your goals for those activities. Include plans for the next year, at which time you should review your progress and update your plans for the subsequent year.*

### LONG-TERM CAREER GOAL(S)

- 1) small biotech company or research institute (biologics research/cancer)
- 2) industrial post-doc
- 3) medical writer: segue into a greater leadership role
- 4) science education/outreach/counseling

Obstacles: Is it sensible to apply for all these respective paths?

### COURSEWORK

**Coursework for degree completed- YES; next step is preparing for the third meeting; narrowed down the topics; need to formulate a true hypothesis and begin to write**

### RESEARCH PROJECTS

PROJECT	STATUS	GOAL(S)
SAR/SKR of Substrate Binding Pocket of InhA in Mtb	Manuscript writing in progress	To have a first draft completed manuscript by Christmas
Bivalent inhibitors of the Ribosome	Design and synthesis in progress	Cellular work (PAEs, MICS, time-kills) to follow; goal is to have a complete inhibitor set by March
Bivalent inhibitors of Acetyl-CoA Carboxylase	2 variations of scaffolds; one series complete	Make analogous compounds for second series by March; decide by April whether to test the fitness cost of ACC inhibitors by using a ribosomal inhibitor
Oxaborole synthesis	Synthesis in progress	Make the common intermediate by Christmas
Fluorine labeling of diphenyl ether	In progress	Finish this compound and test its activity by Christmas

**Obstacles: Regarding InhA manuscript, need to organize all relevant characterization data; waiting on X-ray crystallography data from collaborators; need to make the decision whether to move forward with some other studies on campus: will this add to the story? Regarding time allocation, I need to spend more time writing and organizing all relevant research data (maybe a bit less time in lab). At times, the anxiety will set in and it is easy to find other priorities to focus on in order to avoid the inevitable (true happiness will follow if I start allotting more significant time to writing and organizing)**

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### CONFERENCES/PAPERS/POSTERS PRESENTED

PROJECT	CONFERENCE	DATE	ACTION	STATUS
InhA project	Bioorganic Gordon	June 2013	Poster presentation	complete
InhA project	ACS Med chem Division	Sept 2013	Poster presentation	complete
InhA project	ICB&DD and Chemistry Research Day	2011-2013		
Bivalent inhibitor projects	ICB&DD and Chemistry Research Day	2014		

**Obstacles:** Plan to present at Gordon in June 2015 (need to have a near-publication story on the Bivalent Inhibitor projects by then especially because this bivalent approach is very novel; hard to decide if this is realistic at this point)

### PUBLICATIONS

PROJECT	JOURNAL/PUBLISHER	DATE	STATUS
Passerini dendrimers	Organic Letters	2012	
Staph aureus FabI	ACS Chembio	2014	In submission

**Obstacles:** need to work on manuscript for the InhA paper (would be my first co-first author paper); plan to wrap up bivalent projects before graduation; will these projects be in a state for potential publication by then? This is unclear right now (both are very new projects)

### HONORS, FELLOWSHIPS & GRANTS

TITLE	PROJECT	DUE DATE	STATUS

**Obstacles:** Area of weakness: Need to consider applying for fellowships especially if considering an industrial post-doc (Question: What other career avenues offer an opportunity to apply for fellowships?)

Regarding grant writing, I've assisted my advisor in different ways for a few different grants.

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### TEACHING & MENTORSHIP

POSITION	TIME COMMITMENT	GOAL(S)
Grad Student mentor	Significant- mentored 8 students ranging from high school to undergrad to graduate level	Developing skills to be an awesome mentor (ability to relate to students and understand how to tailor teaching methods to best accommodate the student, setting them up for success)
General Chemistry TA	First yr grad school- 2 semesters	
Chemistry department tutor	variable	

**Obstacles:**

### PROFESSIONAL & SKILL DEVELOPMENT

PROGRAM/SKILL	GOAL(S)	STATUS
ACS short course	course in Drug-like Properties: PK and Safety in Drug Discovery	Completed May 2012
Intern at Coferon Inc.	Analytical chemistry internship	Completed Jan 2014-May 2014
Tuberculosis Journal Club		

**Obstacles:** Plan to attend seminars at the NYAS in coming months; I've learned some new skills over the past year. My original plan was to utilize these skills upon completion of synthesis of compounds in my research project. Synthesis is taking longer than intended. I need to consider new ways (be more creative!) in how to utilize these skills (still in relation to my projects but maybe some test experiments that will still add to our research questions).

### CAREER EXPLORATION & NETWORKING

CAREER	EVENTS/PROGRAMS	TARGET DATE

**Obstacles:** This section was challenging to consider. Currently, this is an area of weakness. To assist in moving this aspect of my planning forward, my goals are to keep in touch with contacts I've made over the past couple years (how? send emails to show interest and keep them up to date with plans etc). I need to plan for meeting with people in the Career Development Center and think about attending events focused on career exploration/networking/workshops. I can also take initiative and contact people currently in a career field I am considering and ask them to meet with me so I can learn more from someone directly in a given field.

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### PROFESSIONAL SERVICE

ACTIVITY	TIME COMMITMENT	INTENDED OUTCOMES
Student Senator for Chemistry Department		
Lab coordinator		
Graduate affairs committee		
Orientation volunteer		
Invited Robert Copeland to speak at SBU in April!		
Introduced this year's Chemistry Research Day Keynote Lecturer		

**Obstacles:** I would say I'm satisfied with my current level of professional service/leadership. Adding more things may compromise other important areas.

### WORK-LIFE BALANCE

**Obstacles:** Personal challenges- Should I chose a starting career path most amenable to my lifestyle choices during this stage of my life? I value having time for my family. Which careers are agreeable to this ideal? If I work for a biotech company, do I need to worry about doing bench-work if I am pregnant? I need to also think about the additional level of complexity that comes along with starting a career, starting a family, and dealing with financial stresses simultaneously (student loan debt from college/children/new life!) At this stage in life, money is important (post-doc salary not agreeable to this changing lifestyle).

*Before finalizing your IDP, you should consider discussing it with an individual other than your mentor(s). For example, you may ask a professor or a peer in or outside your department.*

Trainee's Signature: \_\_\_\_\_

Date: \_\_\_\_\_