PHARMACEUTICAL SCIENCES
Strategic Planning Department Meeting
March 2, 2012                        1:00 – 2:00 PM

Presentation
- See handout
- Some places are giving as much as $500,000 in startup funds
- We offer maybe $25,000
- Have only 1 South Dakota student in graduate program
- TCRC is “head of the class”

Timeline
- This semester is for campus input
  - Departmental meetings
  - Dialogue & Listening sessions
  - Great Colleges Survey
- Develop next 5 year plan over summer
- Share the draft in the Fall
- Will new plan look different than the current one?
  - May refresh our goals
  - Don’t expect to have it change dramatically
  - Hope departments will have more aggressive tactics toward implementation
  - We didn’t have time and expertise to do this in the last plan
- President would like to see more granular tactics to get us toward quantifiable goals
- Expression of appreciation to Provost and President for these listening sessions

What do the President and Provost think of their presentation and where do we see them in 10 years?
- A good example of quality
  - the Ph.D. program blossomed quickly
- They had faculty, administrative support and students
- Had money given to attract quality students
- On the right path
  - Keep it going
- Are they aligned with the goals
  - absolutely
One of the strategies is to focus on some core areas. Where are the key points of growth for SDSU’s future?

- Major strength is in oncology areas
  - Startups
  - External funding, etc.
- Second is neuro-pharmacology
  - Brain research
- Third, cardio-vascular
- Sometimes, though, research moves into an unexpected area which is exciting pharmacy
- All faculty are interested in research and are self-motivated
- Summer salary has really helped
- Interested in moving to the next level
  - Will take some time to move it to a sustainable level
- Success lies in the faculty’s high motivation
  - Expect to reach the point they can self-sustain
- Expecting to get an endowed chair in oncology

Potential for collaboration

- Collaborate with both competing hospitals in Sioux Falls

Challenges

- To retain faculty and get to higher potential – need summer funding
- Compared to AACP & peer institutions, salaries are far below
- Chair said they are in the bottom 25% of the AACP salaries
- Dean Hedge is looking at new pricing structure for college
  - Salaries should be built into this
- Also need to balance facilities and summer salaries
- When people leave, take their science with them
- Need to invest to retain people
- People feel this is a great place to work
  - Because of collaboration
  - Department works as a unit
  - Growing collectively not individually
- Salary also important for recruiting people
- Limited space
  - Can’t accommodate more faculty or most post-docs
Library
- Briggs and Wegner are good
- Science Finder
  - Discontinued
  - Need it for invention disclosure
  - Will need to use it more as do more research
- Exact Search & Similar Search
  - Two products
  - Talking about combining the two
  - Might be good to have when combined
- Library support
  - Don’t see a direct connection
  - Saves time
  - Can do research to support work

Telepharmacy
- Jumping to mobile rather than telepharmacy
- Would be useful if have a faculty capable of using it
- Give us 1 FTE and we'll do it!

High performance computing?
- Use for clumping components to look at
- Then apply for grants based on the analysis

The more we see personalized medicine there is great potential for high performance computing

Department heads and deans aren’t always in the loop for invention disclosure.
- Need to get them involved so they can facilitate.
- They get pulled in when there are legal issues.
Mission

The mission of the Department of Pharmaceutical Sciences of the College of Pharmacy is to provide a strong foundation in pharmaceutical and related sciences to pharmacy students and prepare them to be competent in providing high quality patient-centered and population-based pharmacist care to the people of South Dakota, the region, the nation and the world. The Department concurrently seeks to advance graduate education, research, scholarship, and creative activities in pharmaceutical and related sciences.
Strategic Goal 3

- Support and develop high quality faculty

Faculty

- Professors
  - Chandradhar Dwivedi, Ph.D., Distinguished Professor and Head (tenured)
  - Xiangming Guan, Ph.D., Professor and Coordinator of Research and Graduate Studies (tenured)
Faculty cont.

- Associate Professors
  - Gudiseva Chandrasekher, Ph.D. (tenure track)
  - Hesham Fahmy, Ph.D. (tenured)
  - Jayarama Gunaje, Ph.D. (tenure track)
  - Omathanu Perumal, Ph.D. (tenured)
  - Shafiqur Rahman, Ph.D. (tenured)

Faculty cont.

- Assistant Professors
  - Zhu-qiu Jin, Ph.D. (tenure track)
  - Teresa Seefeldt, Pharm.D., Ph.D. (tenure track)
  - Hemachand Tummala, Ph.D. (tenure track)
  - Hongwei Zhang, Ph.D. (tenure track)
Adjunct Faculty

- Radhey S. Kaushik, Ph.D. (tenured in Biology and Microbiology Department)
- Min Zhao, Ph.D.

Faculty

- Ph.D. program brought two new faculty positions to the department
Faculty Development

- Junior faculty mentoring
- Funds for faculty development
- Funds to attend national meetings
- Peer observation in classroom
- Summer supplements

Postdoctoral Fellows

- Drs. Ranjith Averineni, Yinhong Li, Sreevidya Santha, Pawel Szymanski
Support Staff

- Jolene Landmark, Senior Secretary
- Rita Schulz, Program Assistant for the College
- Brent Meredith, Grant Coordinator for the College shared with Department of Chemistry and Biochemistry

Challenges

- Relatively higher teaching load
- Lack of adequate start-up funds
- Average faculty salary trails peer group per American Association of Colleges of Pharmacy salary survey data
Strategic Goal 1 and 4

- Enhance the quality of the professional Pharm. D. program
- Build excellence in the areas of scholarship and research to promote economic development

Teaching

- P1, P2 and some elective courses for P3 classes (80 students per class) of Pharm.D. curriculum
- Pharmacology courses for College of Nursing
- Recruitment, admission, retention, advising and monitoring are performed by Student Services of the College (Dr. Dan Hansen)
- Assessment by the Assessment Committee of the College (Dr. Jane Mort)
Teaching

- Graduate Curriculum (about 20 Ph.D. students)
- Recruitment, admission, advising, monitoring are performed by Graduate and Research Committee (Dr. Xiangming Guan, Chair) and faculty members of the department
- Assessment is performed by College’s Assessment Committee (Dr. Jane Mort, Chair) with a Liaison (Dr. Teresa Seefeldt) from the department

Performance of Pharm. D. Students

- Pharmacy Curriculum Outcomes Assessment (PCOA)
Success of Graduate Students

- Receipt of local/national competitive awards by graduate students
- Organization of annual Life Sciences Research Symposium by graduate students
- Placement of Ph.D. Graduates
  - 3 faculty members in pharmacy schools
  - 4 in the pharmaceutical industry
  - 2 as postdoctoral fellows

Challenges

- Difficulty in recruiting domestic graduate students in program
Strategic Goal 4

- Build excellence in the area of scholarship and research to promote economic development

Undergraduate Research

- Very successful
- Two French interns every summer
- Joseph F. Nelson Mentorships
- Honors College students
- Faculty grants
- Annual Pharmacy Poster Presentations
- Presentations at local/national meetings
- Coauthor in published manuscripts
Grants Awarded

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<th>Year</th>
<th>Federal</th>
<th>State</th>
<th>Private</th>
<th>Internal</th>
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Note: Does not include TCRC

Translational Cancer Research Center (TCRC)

- Funded in collaboration with Sanford Research by South Dakota Governor’s Office of Economic Development (GOED) as one of the 2010 Research Initiative Centers
- $2,287,754 (2009-2014)
## Intellectual Property

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<th>Year</th>
<th>Patents</th>
<th>Provisional Patents</th>
<th>Invention Disclosures</th>
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<tr>
<td>2011</td>
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## Intellectual Property

- Two platform technologies have been licensed
- One Start-up, Tranzderm Solutions, has been launched
Publications and Presentations

<table>
<thead>
<tr>
<th>Year</th>
<th>Peer Reviewed Publications</th>
<th>Presentations at National Conferences</th>
<th>Books/Book Chapters</th>
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Strategic Goal 5

- Expand the College’s collaboration and outreach
Collaborations

- Active collaborations within SDSU, and with Sanford, Avera, and University of South Dakota
- Three exchange graduate students
- Two visiting professors

Service

- College and University
  - Academic Affairs Committee
  - Awards Committee
  - Faculty Development and Leadership Committee
  - Faculty Senate
  - Honors College
  - Graduate Council
  - IACUC
Professional Service

- Membership in professional organizations
- Membership on national professional committees
- External grant panels/reviewers
- Invited presentations for professional societies and other academic institutions
- Journal editors, books editors, editorial board members

Strategic Goal 2

- Maximize teaching, learning, scholarship through technology and broad based improvement of physical facilities
Space

- Classrooms and laboratory space are better than ever
- Improved research infrastructure
- Improved graduate student space

Challenges

- Lack of space for expansion
- Suboptimal space for postdoctoral fellows
- Suboptimal space for department office
- Animal care facility is far away from faculty research laboratories and is suboptimal for biomedical research
Recent Awards

- Dr. Harold and Barbara Bailey Award for Excellence in Academic Department Leadership
- F.O. Butler Award for Excellence in Research
- Intellectual Property Commercialization Award
- College of Pharmacy ‘Teacher of the Year’
- College of Pharmacy ‘Distinguished Researcher of the Year’
- AACP Academic Leadership Fellows Program

Acknowledgements

- All faculty members and support staff
- Faculty and Head of Pharmacy Practice Department (Dr. Jim Clem)
- Dean, College of Pharmacy (Dr. Dennis Hedge)
- Interim Dean of Graduate School (Dr. Mary K. Helling)
- Vice President for Research (Dr. Kevin Kephart)
- Provost (Dr. Laurie Nichols)
- President (Dr. David Chicoine)