

Clinical mentoring in Med-into-Grad programs

1. Clinical mentors provide medical knowledge in discussion-oriented forum:

Knowledge:

An understanding of disease -- presentation, progression, complications
Identify most important research questions related to improving human health
Understanding of current diagnostics & therapeutics, and unmet needs

Discussion format:

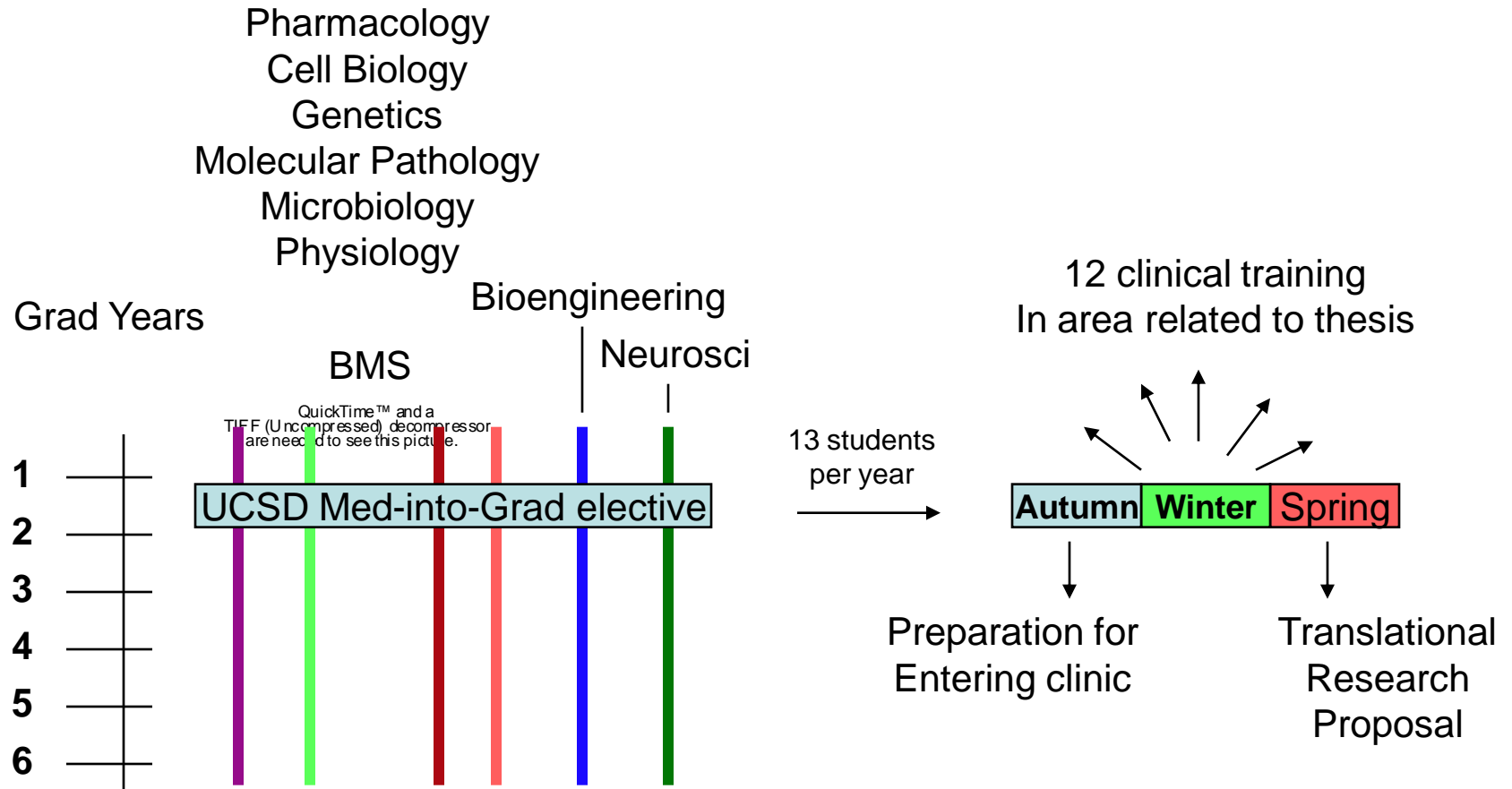
Allows student to recognize ways their molecular knowledge can be used to address unmet needs in research, diagnostics, therapeutics

2. Clinical mentors help students to develop translational research projects and recognize the potential translational value of their thesis research

Clinical mentoring the collective task of numerous individuals, not just 1.

Mentoring activities have different venues in different programs, but have a common purpose

Program design/goals dictates clinical mentoring venues



Winter quarter clinical training programs

Orthopedics



Infectious Disease



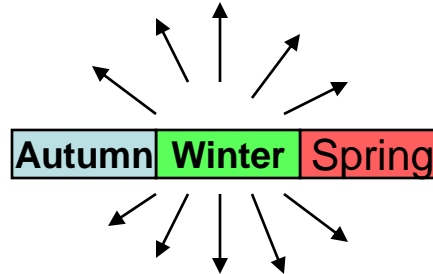
Neurodegenerative Disease



Neurogenetic



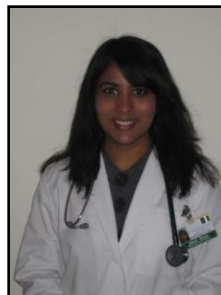
Viral diseases



Pulmonary Diseases
Skin Diseases
Pain



Neurogenetic



Cardiology



Cardiology



Rheumatology

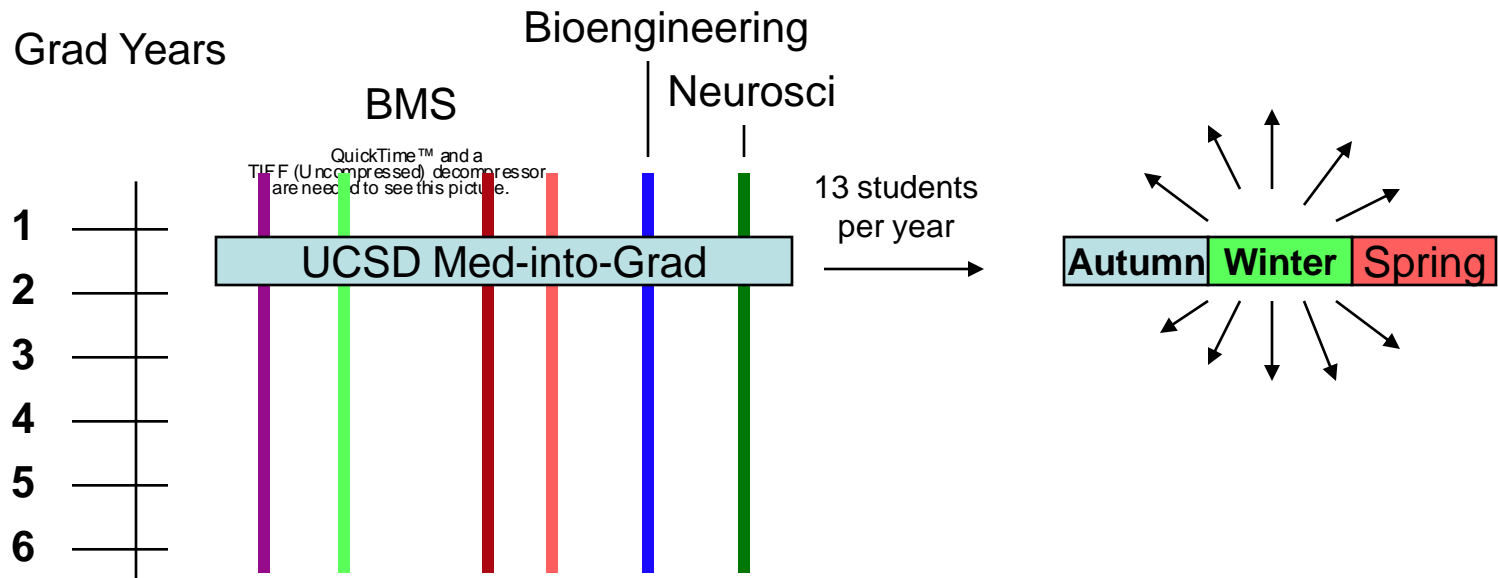


Cancer/Leukemia



Diabetes

Clinical mentoring emphasis



Advantages: Students from many disciplines can participate
Tailored to their thesis research topic
Cost effective-14K/trainee, 13 trainees/year

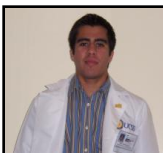
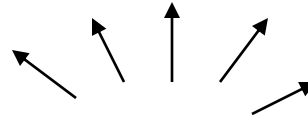
Mentoring Challenges

Intense clinical training requires adequate preparation
Students enter program AFTER selecting non-trans thesis research

Mentoring Response

Emphasize Assimilation
Collaborative Research
Proposal is Final Exam

Roles of clinical mentors at UCSD Med-into-Grad



Clinical mentors facilitate assimilation into Winter quarter training programs

4 hrs: Lead discussions with patients

3 hrs: Teach medical terminology and technologies

8 hrs: Discussion of disease mechanisms, diagnostics & therapeutics, unmet needs

Individualized histology/histopathology discussions

Division director for clinical training meets with student, discuss activities, meet key division faculty

Clinical mentors instill an understanding of disease, diagnostics, therapeutics

Clinical mentors are team members in students collaborative research proposal

Address a research need, a diagnostic need, or a therapeutic need

Using clinical and research faculty at UCSD, write a collaborative proposal

Clinical director and thesis research PI are co-mentors

Examples of this years MIG student proposals are on my posters

Disease-specific clinical mentors in Winter quarter

Viral diseases



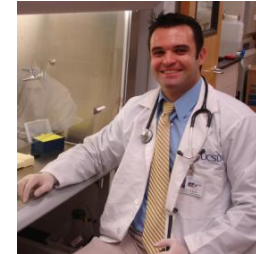
Orthopedics



Infectious D



Neurodegen



Neurogenetic



Division Head is primary clinical mentor. Additional mentors designated in:

- Case conferences
- Inpatient/Outpatient clinics
- Surgeries
- Clinical trials group meeting
- Research conference

Relationship-building occurs

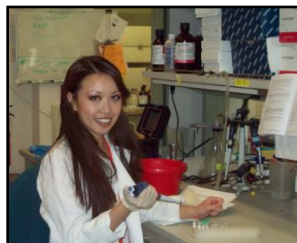
Pulmonary Diseases

Skin Diseases

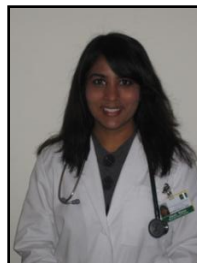
Pain



Diabetes



Neurogenetic



Cardiology



Cardiology



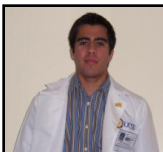
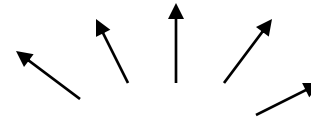
Rheumatology



Cancer/Leukemia

Optional selection of clinical mentor for thesis research
Optional development of a translational aspect of thesis research
Selection of clinical mentor for research proposal

Additional roles of clinical mentors at UCSD Med-into-Grad



Clinical mentors facilitate assimilation into Winter quarter training programs

4 hrs: discussions with patients

3 hrs: medical terminology and technologies

8 hrs: discussions of disease mechanisms, diagnostics & therapeutics, unmet needs
Histology with 1 hr mentored histology/histopathology discussion

Division director for clinical training meets with student, discuss activities, meet key division faculty

Clinical mentors instill an understanding of disease, diagnostics, therapeutics

Optional selection of clinical mentor for thesis research

Optional development of a translational aspect of thesis research

Clinical mentors are team members in students collaborative research proposal

Select most important research need, a diagnostic need, or a therapeutic need

Using clinical and research faculty at UCSD, write a collaborative proposal

Clinical director is consultant

Students PI and clinical director consider proposal for future students, post-doc's

Examples of this years MIG student proposals are on my posters

Clinical mentoring the collective task of many individuals, not just 1.

At UCSD

Facilitate assimilation into the clinic

Teach medical principals to trainees

Help identify translational and collaborative potential in students thesis research

Consult in students development of a collaborative research proposal with basic
science faculty