Individual Development Plan for Postdoctoral Fellows

The IDP is a communication tool aimed at improving the mentoring relationship between postdocs and their faculty advisors. The IDP is a document, completed by the postdoctoral fellow and reviewed with his or her faculty mentor that defines both short- and long-term goals and how to achieve them. It is intended to cover not just scientific goals, but also career development with the hope that this will enable postdocs to become more proactive in their own career development.

This tool should be used in conjunction with Biomedical Postdoctoral Programs policies regarding postdoc and mentor obligations.

Each newly appointed postdoctoral fellow should complete an initial IDP within **six months** of appointment. Current postdoctoral fellows should file an IDP within 2 months before the next reappointment date. Annual review files **MUST** be kept confidential.

The specific goals of the review process are to:

- Encourage constructive dialogue between postdocs and their mentors
- Clarify responsibilities and performance expectations from both sides (mentor and the postdoc)
- Record information about performance and accomplishments and promote more effective performance
- Provide postdocs with feedback on their performance and accomplishments during the previous year/review period
- Identify goals for the upcoming year and specific plans to help postdocs meet those goals

Goals of IDP

The IDP is a changing document, since needs and goals will almost certainly evolve over time as a postdoc. The specific objectives of a typical IDP are to:

- ✓ Establish effective dates for the duration of his or her postdoctoral appointment maximum of 5 yrs at Penn
- ✓ Identify specific skills and strengths that he or she needs to develop (based on discussions with the mentor).
- ✓ Define the approaches to obtain the specific skills and strengths (e.g., courses, technical skills, teaching, and supervision) together with anticipated time frames.
- ✓ Discussion of the draft IDP with the mentor.
- ✓ Revise the IDP as appropriate.

Outline of the IDP process

The development, implementation and revision of the IDP require a series of steps to be conducted by the postdoctoral fellow and the mentor. These steps are an interactive effort. Thus, both the postdoctoral fellow and the mentor must participate fully in the process.

Basic Steps	For Postdoctoral Fellows	For Mentors
Step 1:	► Conduct a self assessment	► Become familiar with available opportunities
Step 2:	► Survey opportunities with mentor	► Discuss opportunities with postdoc
Step 3:	► Write an IDP	► Review IDP and help revise
	► Share IDP with mentor and revise	
Step 4:	► Implement the plan	► Establish regular review of progress
	► Revise the IDP as needed	► Help revise the IDP as needed

Postdoctoral Fellows

Conduct a Self-Assessment

Assess your skills, strengths and areas that need development. Formal assessment tools can be helpful.

Take a realistic look at your current abilities. This is a critical part of career planning. Ask your peers, mentors, family and friends what they see as your strengths and your development needs.

Outline your long-term career objectives. Ask yourself:

- -What type of work would I like to be doing?
- -Where would I like to be in an organization?
- -What is important to me in a career?

Mentors

Step 1. Become Familiar with Available Opportunities

By virtue of your experience you should already have knowledge of some career opportunities, but you may want to familiarize yourself with other career opportunities and trends in job opportunities (refer to sources such as National Research Council reports and *Science* career reviews).

Step 2. Discuss Opportunities with Postdoc

This needs to be a private, scheduled meeting distinct from regular research-specific meetings. There should be adequate time set aside for an open and honest discussion.

Step 3. Review IDP and Help Revise

Provide honest feedback - both positive and negative - to help postdoctoral fellows set realistic goals. Agree on a development plan that will allow postdoctoral fellows to be productive in the laboratory and adequately prepare them for their chosen career.

Part One: To be reviewed by Mentor and Postdoc

Obligations of Postdoctoral Fellows

From the Policy for Postdoctoral Fellows at the University of Pennsylvania (Almanac 2004)

Postdoctoral fellows have certain obligations to their mentor, the group in which they are working, the Department with which they are associated, the sponsor whose funds support them, and the University. These obligations include but are not limited to: (i) the conscientious discharge of their research, scholarly, and teaching responsibilities, as applicable; (ii) conformity with ethical standards in research and scholarship; (iii) compliance with good scholarly practice including the maintenance of adequate research records; (iv) observation of appropriate guidelines regarding human subjects and due observation of University standards regarding use of isotopes, chemicals, infectious agents, animals, and the like, if applicable; (v) open and timely discussion with their mentor regarding possession or distribution of tangible property such as materials, reagents, and the like; (vi) discussion of laboratory records or scholarly materials, if relevant; (vii) prior disclosure of appropriate scholarly information, findings or techniques proposed for dissemination privately, at scholarly meetings, or in publications; (viii) collegial conduct towards coworkers and members of the academic or research group; (ix) compliance with all applicable University policies.

Obligations of Mentors

From the Policy for Postdoctoral Fellows at the University of Pennsylvania (Almanac 2004)

Mentors' responsibilities include: (i) developing in consultation with the PDF a mutually satisfactory research project or scholarly program; (ii) encouraging PDFs to present their work, both inside and

outside the university, and to publish their results in a timely fashion; (iii) encouraging PDFs to acquire and enhance their knowledge and technical skills as dictated by their current and future needs; (iv) arrangement and oversight of teaching opportunities as appropriate to their discipline and program; (v) encouraging PDFs to apply for training and research support as appropriate; (vi) meeting regularly with their PDFs to discuss progress in their research; (vii) providing an annual review of performance; (viii) insuring that PDFs are aware of University policies regarding postdoctoral training, and are instructed about research policies of the University; (ix) providing career counseling.

Career Development Guidelines

Mentors should encourage postdocs to:

- 1. Manage their own project, which should lead to a first author publication.
- 2. Learn ancillary skills, e.g. writing, public speaking, networking, etc.
- 3. Write or assist in writing papers.
- 4. Apply for extramural support (e.g. NRSA postdoctoral fellowships, career development awards, private foundation fellowships, etc. within the 5 year timeline)
- 5. Participate in the review of journal articles and other publications.

Part Two: Postdoc Review Form

Postdoc Name:	Signature:	Date: ַ				_
Department:						
Mentor:	Signature:	Date:				_
Appointment Date:	Review Date:					
Department Chair Signature:	·	_ Date:				_
Research Skills						
Creativity/developing new re	esearch directions	NA	Α	В	С	D
Experimental design and critical evaluation of data		NA	Α	В	С	D
Review and evaluation of scientific literature		NA	Α	В	С	D
Problem solving/troubleshooting		NA	Α	В	С	D
Statistical analysis		NA	Α	В	С	D
Computer skills						
A. General (Office, Adobe etc.)		NA	Α	В	С	D
B. Data analysis software (Flow-Jo, Graph Pad Prism, Sigma Plot etc.)		NA	Α	В	С	C
Skills specific to your field (e.	g. cell culture, spectroscopy, Mol bio methods)	NA	Α	В	С	D
Lab records and data manag	ement	NA	Α	В	С	C
Professional Skills						
Oral presentation skills		NA	Α	В	С	D
Manuscript writing skills		NA	Α	В	С	D
Grant/fellowship writing skills		NA	Α	В	С	D
Teaching skills (in a classroom)		NA	Α	В	С	C
Teaching skills (one-on-one)		NA	Α	В	С	C
Identifying mentors and utilizing them effectively		NA	Α	В	С	C
Mentoring others		NA	Α	В	С	C
Time Management						
Meeting deadlines		NA	Α	В	С	C
Establishing priorities within your schedule		NΔ	Δ	R	C	Г

Working efficiently	NA	Α	В	С	D
Organizing skills	NA	Α	В	С	D
Flexibility and multitasking	NA	Α	В	С	D
Interpersonal Skills					
Reliability; following through on commitments	NA	Α	В	С	D
Communicating effectively in written correspondence	NA	Α	В	С	D
Communicating effectively in conversation	NA	Α	В	С	D
English proficiency – spoken and/or written	NA	Α	В	С	D
Ability to give and receive constructive feedback	NA	Α	В	С	D
Networking/meeting new colleagues	NA	Α	В	С	D
Collaboration/ Ability to work in a team	NA	Α	В	С	D
Collegiality/helpfulness towards others	NA	Α	В	С	D
Management and Leadership Skills					
Independent management of own research project	NA	Α	В	С	D
Developing/managing budgets	NA	Α	В	С	D
Chairing a meeting	NA	Α	В	С	D
Establishing priorities for a team	NA	Α	В	С	D
Delegating responsibility	NA	Α	В	С	D
Leading and motivating others	NA	Α	В	С	D
Supervising/managing people	NA	Α	В	С	D
Working within an organization	NA	Α	В	С	D
N/A: not applicable, A as highest grade and D being the low	est.				
List some <i>specific laboratory/research techniques</i> that you are highly proficie valuable in a future career path.	ent at,	whic	h co	ould	be

List some <i>specific laboratory/research techniques</i> that you need to improve in order to be successful in your current position or future career path.
List some <i>specific knowledge areas</i> that you already specialize in , which could be valuable in a future career path.
List some <i>specific knowledge areas</i> where you need to improve your understanding in order to be successful in your current position or future career path.
Has the postdoc completed/attended any Core or Optional elements of the Postdoctoral Training Program?
Core Elements:
Optional Elements:

Setting Goals: Research projects

What are the scientific questions that you will be working towards answering in the next year? These may be individual papers (or figures within a single paper) that you aim to publish.
What are the experimental approaches that you are currently pursuing? Are there other approaches that you could try? Are there additional, more promising experiments that you should be doing?
We all know science doesn't follow timelines; but it's important to set limits and goals. How long are you willing to keep trying before you drop each of these experiments/projects? What result or deadline will trigger when you begin the next approach?
What professional development activities/opportunities (e.g., training, conferences, special projects, etc.) would you like to pursue during the next review cycle that would enhance your performance and skill development?
Who is your secondary mentor(s)?
What month and year do you hope to finish this stage of your training?

Part Three: To be completed by Mentor and Postdoc

Goals for Next Review Cycle

Goals, Projects and Responsibilities that were mutually discussed and selected for the next review period

Goal/Project/Responsibility	Expected O	utcome
Goal/Froject/Responsibility	Expected O	uttome
Future Career Development		
Professional development activities planned for the next review period	/opportunities (e.g., trainings, con	ferences, special projects, etc.
Training/Confere	nce/Opportunity	Date
	,	
		_
Mentor Signature		Date:
Postdoc Signature		Date

Intramural Postdoctoral Training Program

Core Elements

- 1. Bioethics Training RCR Training
- 2. Chemical Hygiene, Environmental Health and Radiation Safety Training
- 3. Research Animal Policies, Practices, and Procedures Training*
- 4. Human Subject Research Training*
- 5. Public Seminar on Research
- 6. Competency in Scientific Writing
- 7. Regular Attendance at Seminars

Optional Elements (below are few examples)

- Research Success Skills
 - a. Peer Review
 - b. Scientific Writing
 - c. Grant Writing/Obtaining Grant Funding
 - d. Public Speaking
 - e. Establishing/Managing a Lab
- 2. Continuing Education
 - a. Coursework
 - b. Conference Attendance
 - c. Specialized Technique Training
- 3. Career Guidance
 - a. Career Success skills workshops
 - b. Career Advising and Programming
 - c. Biomedical Career Fair
- 4. Career Development Opportunities (i.e. Internships in technology transfer, business planning, or Bioethics; Teaching opportunities, etc.)

See the Training page for a more detailed description of training elements on-line at www.med.upenn.edu/postdoc.

^{*}Individuals not conducting animal or human subject research are exempt from this training.