



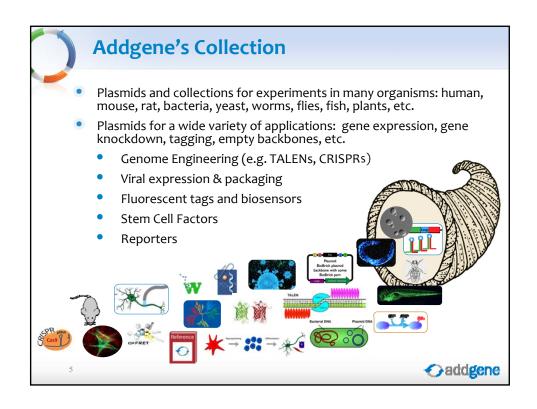
Addgene Statistics

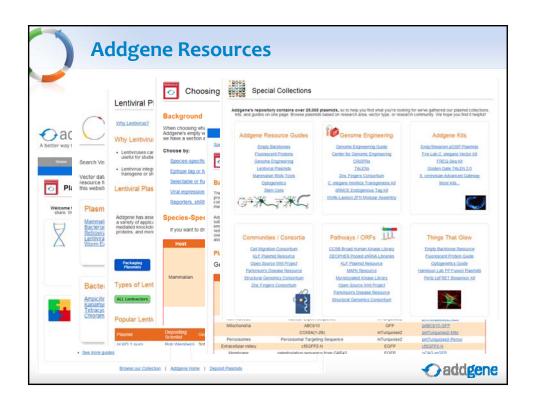
- >25,000 plasmids stored
- From >1,600 contributing labs, >300 institutions worldwide
- >1,800 plasmids shipped each week
- 51% shipped to scientists outside the United States
- Samples shipped within 2 business days of MTA approval



"I do science differently because I can use the Addgene library to find reagents"





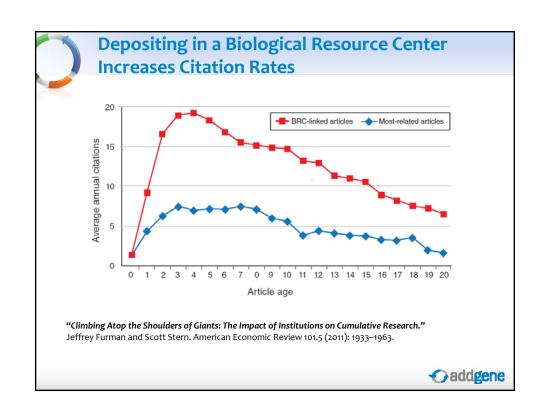




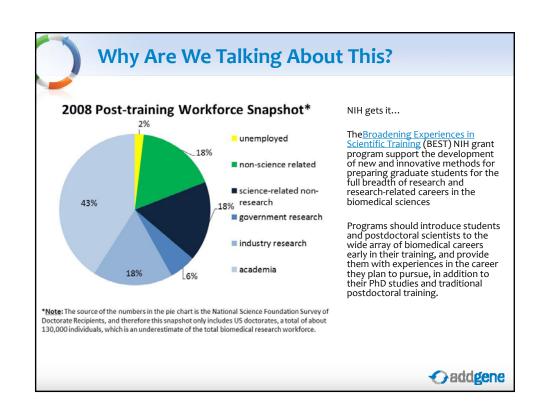
Benefits of a Central Plasmid Repository

- Save time on request mailing
- Access all plasmids in one request
- No loss due to turnover of lab members
- New labs hear about your work, more citations
- Archive historical clones and standards, rigorous QC
- Get a list of who has your plasmids any time (for grants or Tech Transfer offices)
- Collaborate! Participate in our Community!











#10 How is Industry Different from Academia?

- Usually several projects in parallel
- Must be ready to change projects frequently with little notice
- More opportunities to present
- Publish less, if at all
- Strict documentation often required
- Better resources available (\$)—can plan cool experiments
- Always working on a team/in a matrix
- Other people will scrutinize your data—all the time
- Work concentrated to business hours sort of
- Working under tight (impossible) timelines - others are usually waiting, the patient is always waiting







#9 How is Industry Not Different from Academia?

- Academic science is much like industry but the "product" is publications—pressure to produce is not different
- You can do quality science on interesting topics
- Must justify use of resources and pay attention to budget constraints
- Having strong "non-science skills" helps
- Get to interact with your own kind





#8 Biotech vs. Pharma?

	Pharma	Biotech
	Develop expertise areas quickly	Jack/Jane of all trades
	More sources of training and resources within the company	Must find own sources of knowledge often externally
	A bit less crazy	Crazy hours (really)
	Specific requirements for hiring more common	Likelier to hire on general talent and not specific skills
	Can have a long term career with advancement in one company, good performers in for the long haul	Limited movement in one company, likely will need to move around every 3-6 years—a short and exciting ride
	Complicated matrix structures are common	Small integrated teams, little hierarchy
	Real diversity and acceptance can be an issue in getting promoted (especially race and gender)	Interpersonal issues can create interpersonal issues (one bad apple can change entire culture)
Can move between the two (helps to know the right pe		elps to know the right people)





#7 Why Would I Move to Industry?

- You are ready for more movement–projects end but good performers move around
- Don't mind moving jobs every 4-5 years
- You prefer a more structured approach to your time management
- Ready to focus on collaboration and working in a team
- Love science but not interested in bench work (in the short or long term)
- Want to be closer to the technology of treating patients & solving problems
- Want more money to play with and not willing to enter the grant writing fray
- Relocation requires it

Article worth reading:

http://chronicle.com/article/On-Leaving-Academe/133717/



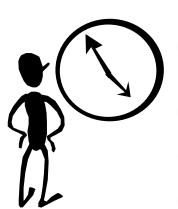
#6 Why Would I Stay in Academia?

- Prefer a greater sense of autonomy and are a confirmed "individualist"
- Want to focus on science for science's sake
- Love the intellectual atmosphere and "ferment"
- Would like to train and teach students
- Prefer collaborations be less "complicated" (but possibly less funded)
- Not because you think it is more rigorous
- Academic researchers must be extreme self-starters and good at self-promoting
 - No one is going to tell you to pick up the pace
 - Success in industry also requires these skills, but expectations are clearer and more defined—(many) more people watching
- Think about your own motivations and what you enjoy about your work—are you really ready?
 - It is still a little harder to go back to a traditional academic path after a stint in industry





#5 When Should I Move to Industry?



- After 3-4 post-doc years
 - In can be a disadvantage to wait longer
- When you can easily describe your marketable skills and talents
- When you have a great job talk ready
- When you have a 1rst author publication in a good journal
- When you have some visibility in the community





#4 What Can I Do to Get Ready?

Leadership and Management

- Supervise trainees to demonstrate management skills
- · Manage a project
- Be a mentor
- Start something new, be the head of a group

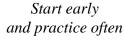
Collaboration

- Collaborate and publish
- Do a project that relies on a division of labor
- Serve on a committee, do something big
- Help other people, show you can build/be on an effective team

Communication

- Go to workshops on interviewing, resume writing
- Practice your English if you need it, go to ESL classes
- Practice your presentation skills whenever possible
- Write whenever you can, find supportive editors
- Become a "thought leader", develop a "niche"











What Can I Do to Get Ready? (cont'd)

- Do what you can to "learn the business"
 - Become familiar with the life science industry and how commercialization works in different models
 - Research the companies in that you might target
 - Consult to get experience in technology evaluation
- Consider this when choosing a training lab: Does the advisor support an industry career path? (if not too late)
 - Do ex-lab members go into both academia an industry?
 - Does the advisor have industry connections?
 - Is the work (field and technical aspects) applicable to industry (e.g. human disease models, drug properties, etc.)?
 - Does the publication record show evidence of industry collaboration?
 - ASK! If you know you want to consider this path, don't go somewhere that won't support it
- Identify other mentors who will help
 - You must be developing a list of excellent references





#3 How Do I Not Tank in the Interview?

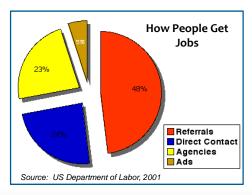


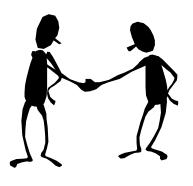
- Research the employer
 - · Visit the company website, read company press releases and news articles
 - REALLY read the job description, be ready to ask questions about the role
- Write an excellent talk and practice it for others
 - Don't just share data, present yourself as a thought leader. Don't just share what you know, share what you think and believe
- Practice interviewing
 - Do "informational interviews": Use your network to find people who worked or work at that company or in similar positions. Especially in the department you are heading for, meet them, talk to them ask questions
- Be prepared with "stories"—really write them down and practice
 - Prepare 10 stories that exemplify successful work outcomes keep a running list
 - Make sure to say "I" and not "we" when appropriate
- Dress professionally
 - Be formal (yes, even for bench positions) but comfortable (no spike heels). Don't wear a brand new outfit. No short skirts, no low low tops. Men wear a tie.
- Don't be late (duh)



#2 How Do I Meet People in Industry?

- Networking of course (but I hate that name for it)
 - Developing relationships (not just contacts) is the key to having access to opportunities and help
 - And you can't wait until the last minute





ASCB/iBio networking webinar http://www.youtube.com/watch?v=nxSI6KicDs4

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Connect



- Become active in groups, both professional and social
- Invite and connect with guests speakers and visitors
- Get to know some recruiters
- Follow newsletters like "FierceBiotech"—learn the "lingo"
- Try having lunch with another human being twice every week!
- Be open to online networking opportunities (but don't rely on this impersonal method)
- Successful networking is a two-way street, and should be mutually beneficial
 - What can you offer?
 - Most people want to help people—do random acts of kindness
- Connect with people you like





Places to Meet People

- In your department
 - Be a speaker, symposia, conference organizer or session chair
- Local Trade Associations (PABio)
- National Post-doc Association
- HBA—Healthcare Business Women's Assn (hbanet.net)
- AWIS—Association for Women in Science (mass-awis.org)
- GWIS—Graduate Women in Science (gwis.org)
- Professional organizations
 - AAAS, ACS, AAI, AACR etc. student and post-doc volunteer/leader roles







www.phdcomics.com

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#2a Do I Really Have to Be "Linked In"?

- Make a professional Linked In profile (or maybe Viadeo)
- Linked In should look as good as/better than your resume
 - Take time to make a good profile—keep it current
 - Put up a professional, clear picture
- DO invite people you have really met and talked with
- DO use it to remind yourself details about people you will meet (especially for interviews!)
- NEVER use the generic Linked In invite text
- DO NOT ask people you don't know for connections or favors or recommendations



Linked in. linkedin.com/in/joannekamens







The #1 question Joanne is asked about transitioning to industry.....



Drum Roll





#1 Can You (Joanne) Get Me a Job?

- No, but here are my best additional tips:
 - Activate your network and nurture it
 - Be prepared to work at the bench first, that's what it looks like you know how to do
 - Whiney doesn't usually cut it in industry (it does sometimes in academia, so break the habit)
 - Try looking at small biotechs and...
 - Follow the money
 - Treat it like a research assignment: educate yourself, get data





Suggested Resources—Books and Articles

- From academic solos to industrial symphonies (Nature Biotech article) Gwen Acton, Alicia Gómez-Yafal & Emily Walsh
- There and Back Again (Nature Bioentrepreneur article) John Boyle
- A PhD Is Not Enough! A Guide to Survival in Science Peter J. Feibelman
- A Fair Deal for PhD Students and Postdocs (eLife article 2013) Henry Bourne
- The Hard Truth About Soft Skills—Workplace Lessons Smart People Wish They'd Learned Sooner Peggy Klaus
- So What Are You Going to Do With That?: Finding Careers Outside Academia Susan Basalla & Maggie Debelius
- Unlocking Your Brilliance: Smart Strategies for Women to Thrive in Science, Technology, Engineering, and Math Karen Purcell





Suggested Resources—Websites

- nationalpostdoc.org
- www.pcdi.nl
- phds.org/postdoc
- postdocjobs.com/resources
- biotechcareercenter.com
- vitae.ac.uk
- nature.com/naturejobs
- sciencecareers.sciencemag.org
- mendelspod.com "Looking for a job is a full time job"
- ASCB/iBio networking webinar youtube.com/watch?v=nxSI6KicDs4 "Not Networking 101— Building Relationships for Success"
- www.benchfly.com/blog/career-development-resources/





Thanks for Listening

• Questions?



