

Meet Sanae Ariga from Hokkaido University!



"Step Forward for Your Dream!"

- ♥ Name: Sanae M. M. Iguchi-Ariga
- ♠ Research Area: Molecular Biology, Cell Biology, Biochemistry
- ◆ Affiliation: Graduate School of Agriculture
Graduate School of Life Science
Hokkaido University
- ♣ Position: Professor / Vice-Executive
Head of Support Office for Female Researchers



Interests and Prospects - in Research

Molecular Analyses of Cellular Disorders

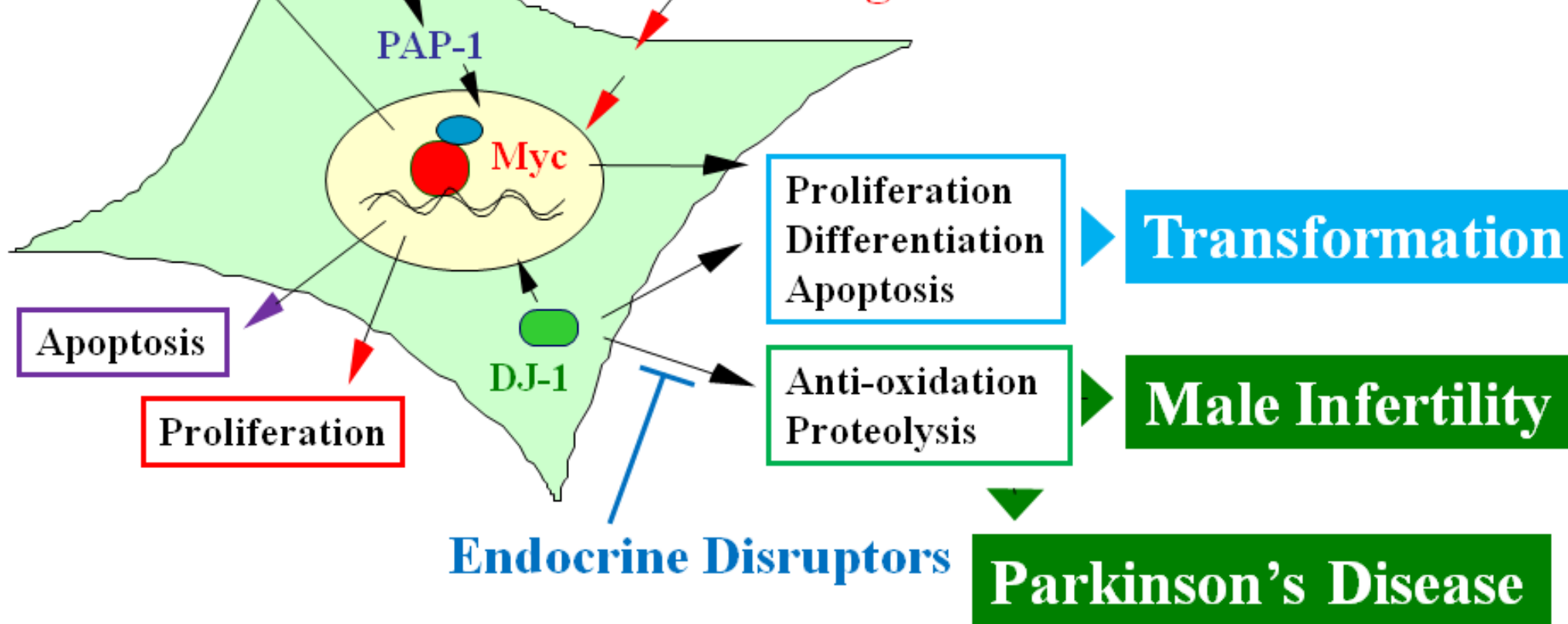
- from Genes to Animals -

Retinitis Pigmentosa

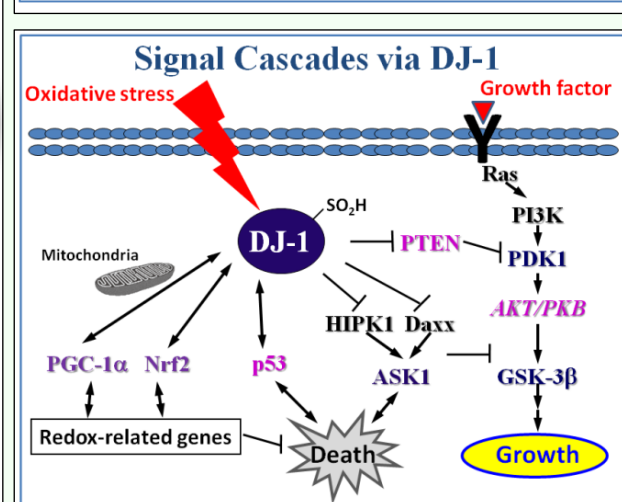
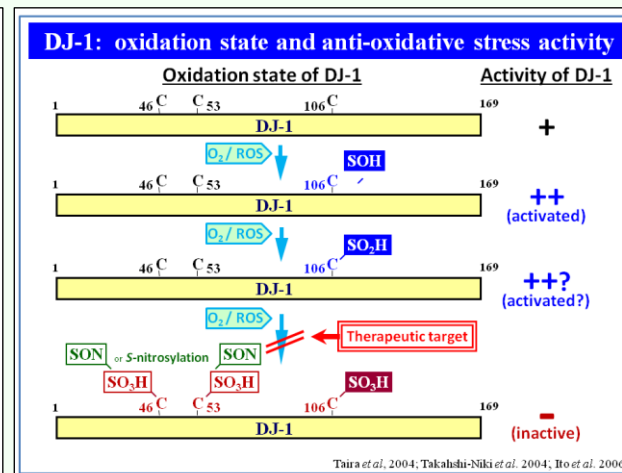
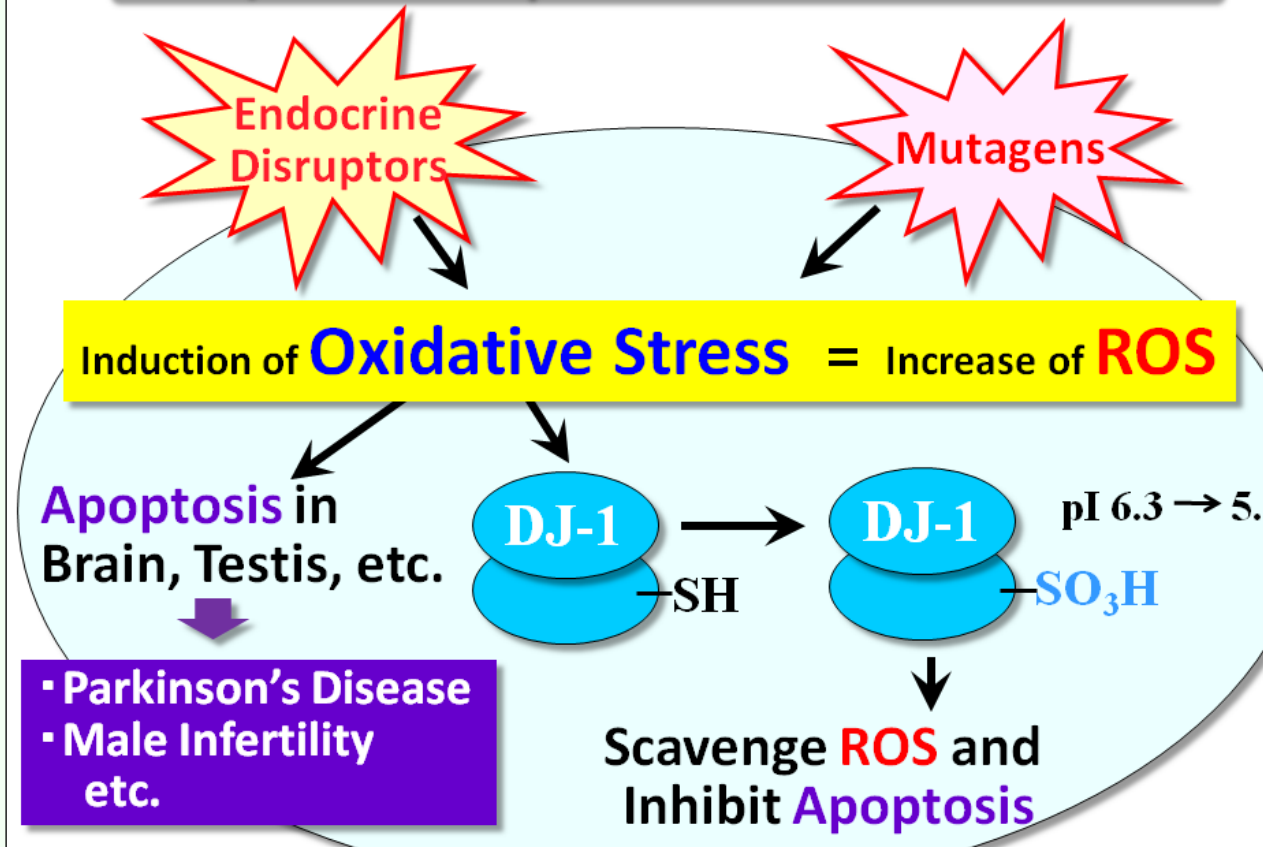
Differentiation

Our Focus: Protooncogenes related to Various Diseases as well as Cancer

Death Signals (Apoptotic Signals)
Growth Signals

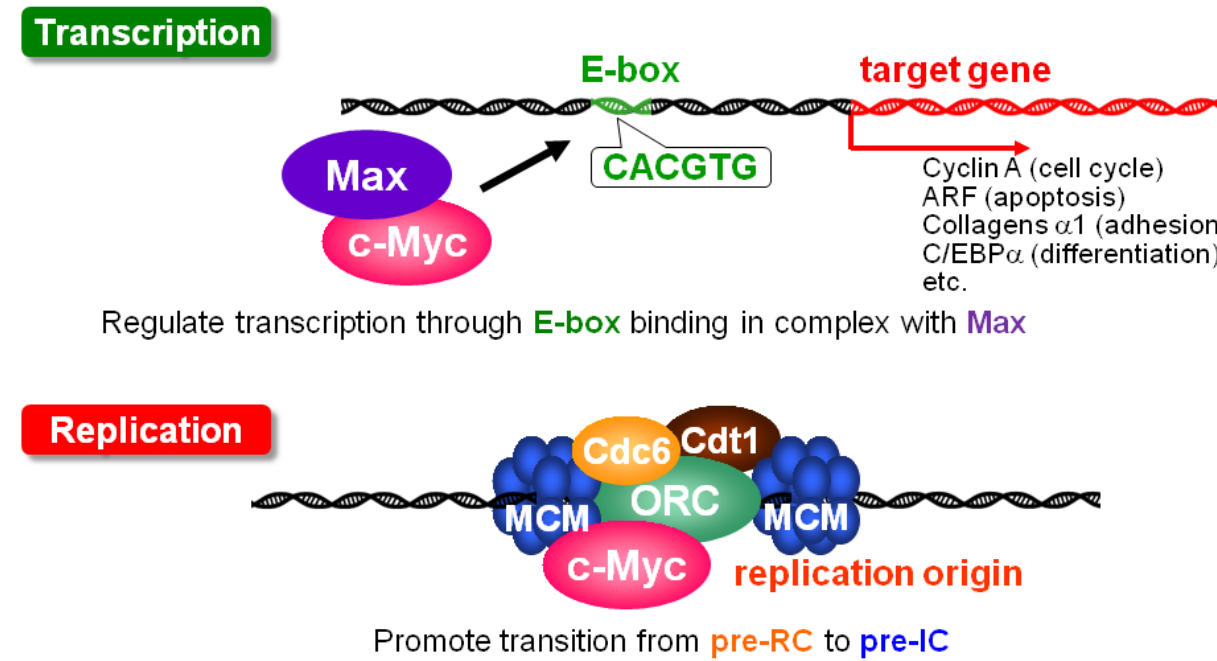


DJ-1/PARK7 Responds to Oxidative Stresses

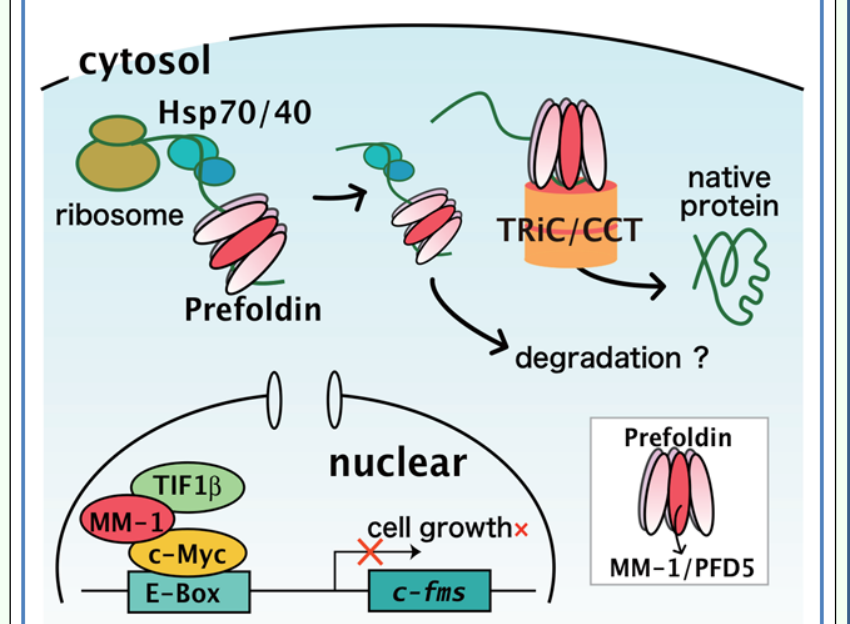


We have uniquely cloned several oncogenes including DJ-1, MM-1, and PAP-1 during the analyses of c-Myc.

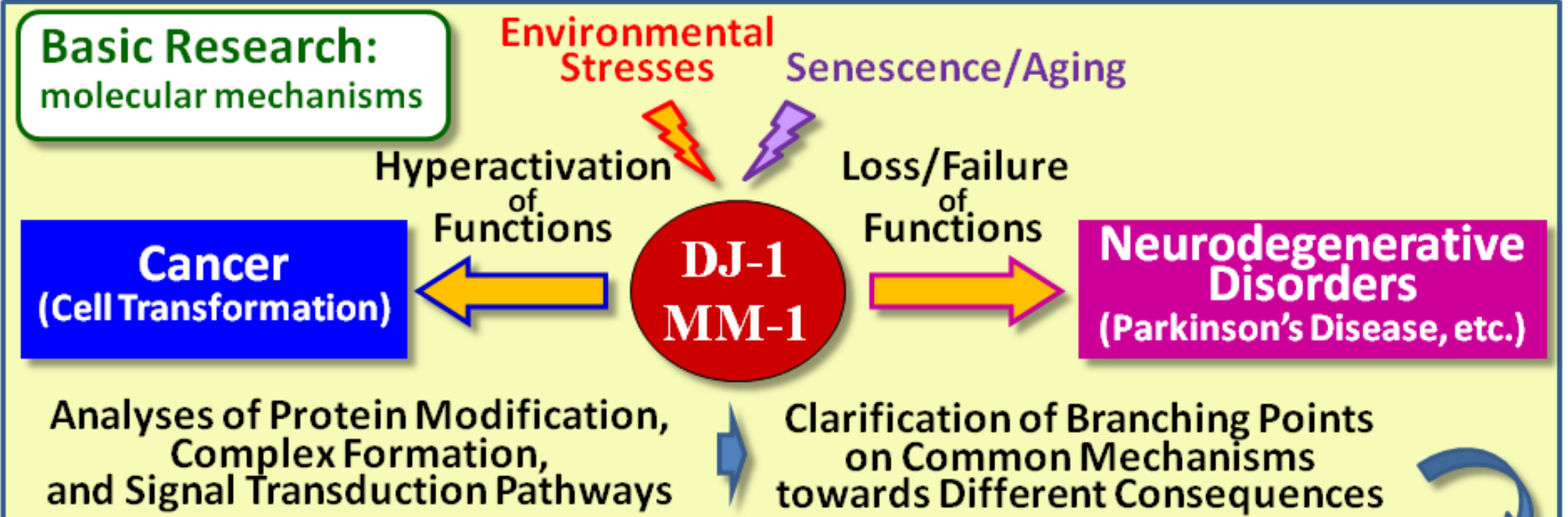
Functions of c-Myc in Transcription and Replication



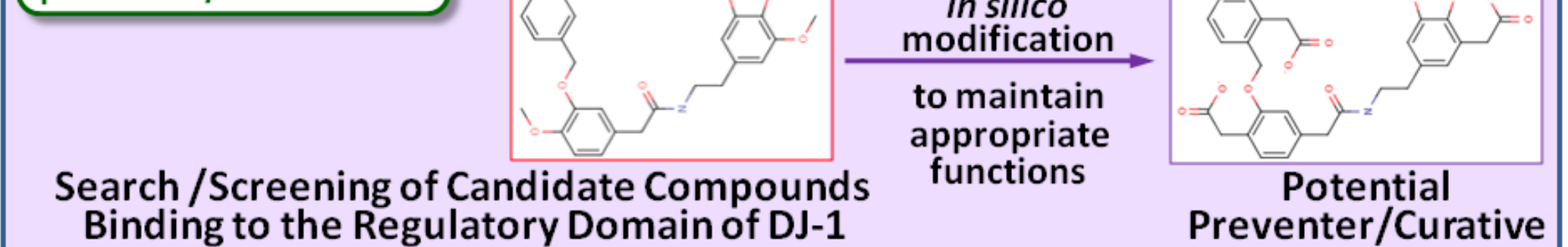
Function of MM-1



Common Basis for Neurodegenerative Disorders and Cell Transformation



Drug Discovery: prospect of preventer/curative



Promotion of Life Innovation for Hopeful Future of Aging Society

Since DJ-1 has turned out to be responsible not only for cell transformation but also for familial Parkinson's disease, common and respective pathways of cancer and neurodegenerative disorders via DJ-1 are our hot issues.

Interests - in Gender Equity in Science, etc.

"Girls Be Ambitious!" Plans at Hokkaido University

"20% by 2020" (Triple Twenties Policy)
Increase the Female Ratio in Hokudai Researchers to 20% by 2020!

NEEDS-driven
Develop and realize support plans in response to female researchers' voice

Support Office for Female Researchers
a fresh approach to support women in science
Since 2006
FResHU
[fres ju]

VISION-driven
Increase diversity of human resource to reinforce research activity

Environment

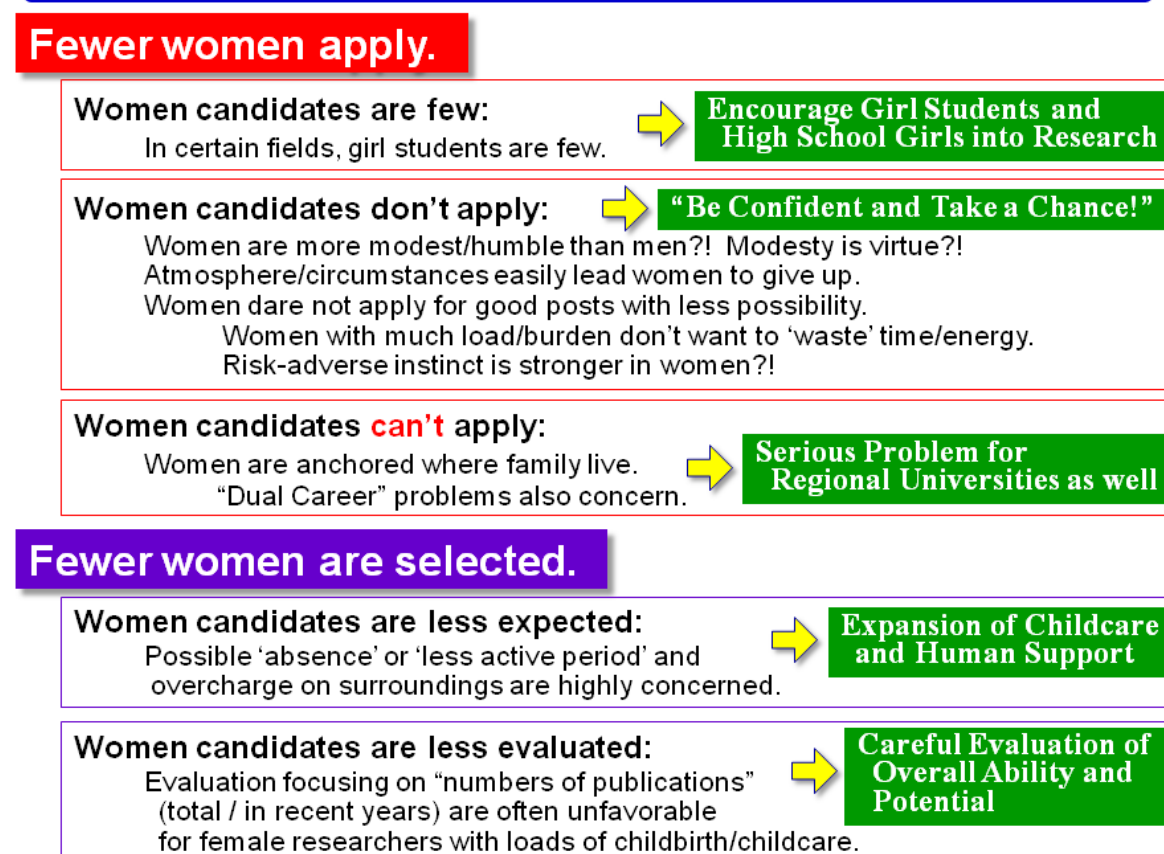
Basic frame and systems have been established: promote further expansion and improvement

Numbers

"Positive Action Hokudai-Scheme" boosted increase of female faculties: continues until 2020 and gears up for STA fields

Applying several MEXT funding programs, Hokkaido University is propelling promotion of female scientists as well as young scientists in general.

Problematic Issues for Appointing Female Faculties



A Project supported by Special Coordination Fund for Promoting Science and Technology (FY2006-2008)
Model Programs to Support Female Scientists

A Project supported by Special Coordination Fund for Promoting Science and Technology (FY2009-2013)
Accelerated Innovation of Fostering System for Female Scientists

Support Career Progression in case of Pregnancy or Upbringing of Children

Supporting Mom-Scientists "to be counted"
University/Institution should prepare the environment where young female researchers can be warmly welcome

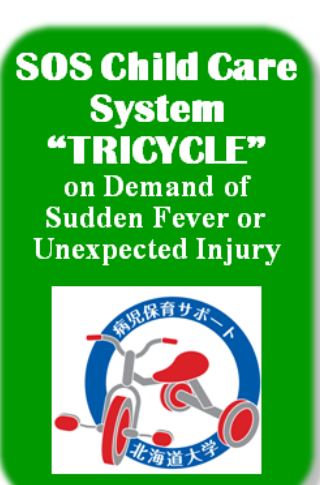
Temporary replacement or supporting staff for research and other lab work

Research assistant or secretary for 20-30 hours/week hired by university budget
Assist lab work, or lessen non-research works to allow Mom-scientists to concentrate their research for limited time

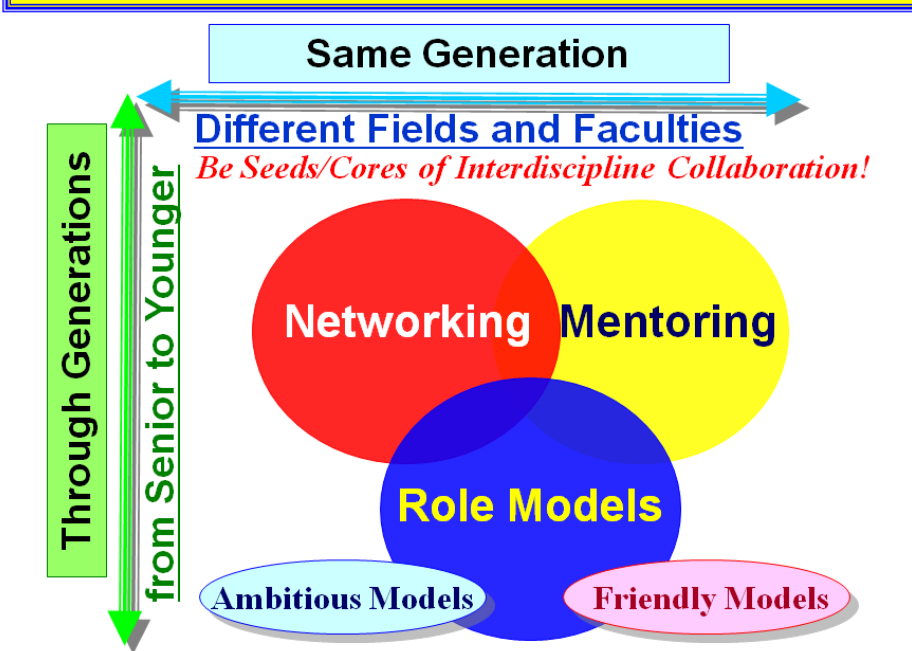
Temporary nursing / day-care service responding to kid's sickness or emergency
Contract between university and group of nurses
Registered female researchers should just call on emergency
Charge is partially supported by university

Prerequisite Conditions for Positive Action

Not only for female researchers themselves but also for surrounding lab members/collaborators



Prevent Isolation of Female Researchers



FResHU Caravan Students Cheer up Girls and Boys towards Science Course through Various Experiments



Cheer Up! Career Up! "Female Researches of the 3rd Generation"

No longer denied nor underestimated unreasonably just because they are women, more female researchers are to be recruited as important parts of diversity, but...
for development and sustainability of their career, appropriate "Accelerator" or "Catalyst" is still desirable.

Affirmative Actions in Hokkaido University

- No "Quota" but "Incentive" to assign female faculty
- *Additional staff cost to relevant Faculty on assignment of female faculty member
- *F3 Project: Recruitment open only for women in STEM fields (25 posts in 5 years)

Sanae's Domestic Collaborators

"Family are not my inhibitor but activator/promoter: Sometimes they just regulate (bring balance to) my life."

