

INTEGRATED RESEARCH INTEGRITY MANAGEMENT SYSTEM (IRIMS) FOR THE FACULTY OF HEALTH SCIENCES (Detailed version)

PROF MINRIE GREEFF RESEARCH INTEGRITY OFFICER (RIO) 2022

Introduction



2015 - 2019 built an effective research ethics system in the FHS and the University.



Potential research non-compliance and/or violation of good research practice were handled by the Dean and the Head of the Ethics Office.

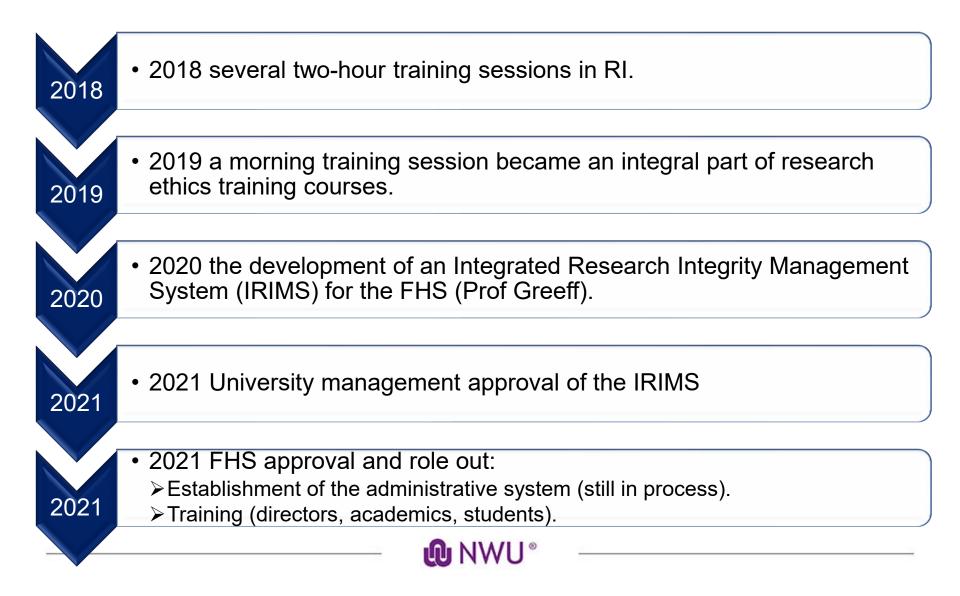


Potential research misconduct was handled by the Dean and the Head of the Ethics Office and referred to the Registrar.



2018 brought about changes: 1) Appointment of the DD: R&I;
2) NWU "Policy on Academic Integrity (2018 revised 2021)"; and
3) an increase in cases of breaches in research integrity in the FHS.

- The latter developed a greater awareness of research integrity.
- Management of RI was delegated to the DD: R&I.



Conceptualization of *research ethics* and *research integrity* at the NWU?

Research ethics

Research ethics refers to a set of rules based on specific principles and governed by norms and standards of conduct for researchers on how research is performed and how it is disseminated (Wallace & Sheldon, 2015:272, Greenwood, 2016:514).

Research integrity

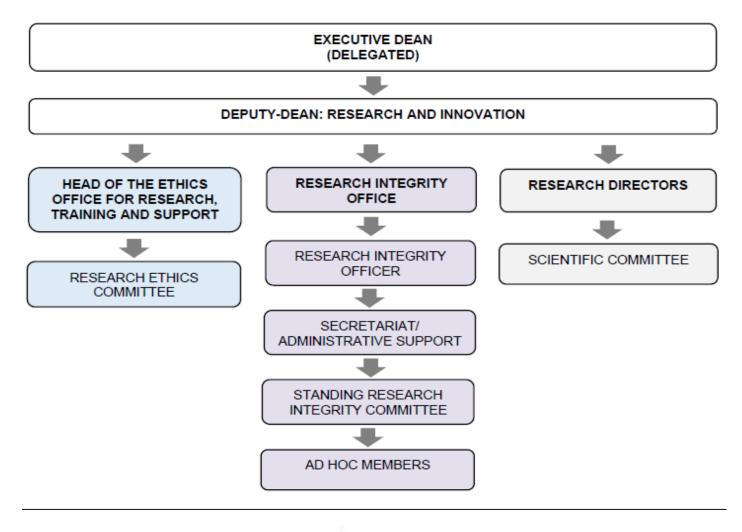
The active adherence to specific research integrity principles and responsibilities that becomes visible in Responsible Conduct of Research (RCR) as stated in the Singapore Statement of Research Integrity, 2010.

* In this session specifically refer to the management of research integrity.

Research Ethics & Research Integrity Tree

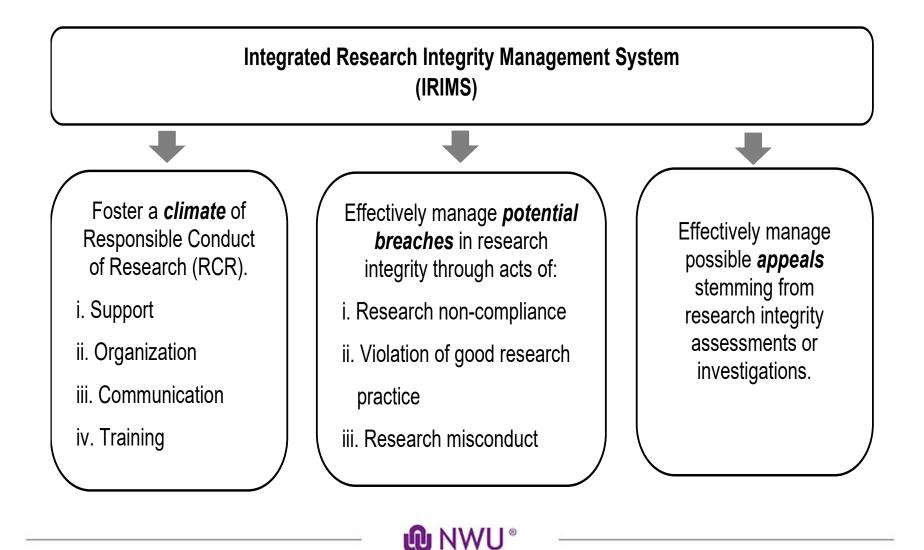


ORGANISATIONAL STRUCTURE FOR RESEARCH INTEGRITY (purple middle section)



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INTEGRATED RESEARCH INTEGRITY MANAGEMENT SYSTEM (IRIMS)



Faculty of Health Sciences

What a research environment should be like.

What to strife towards.

What to include in personal development plans.

Area	Topic and Actions
oort	 Research environment: Research director – administrative support, support in generating Turnitin reports, critical readers. Fair, transparent, and responsible assessment procedures during task agreements, appointments, and promotions. Consultation services on research ethics and integrity related matters for researchers. Counselling on research integrity related matters for researchers.
Support	 Research study supervision: Clear guidelines for study supervision i.e. Higher degrees manual. Skills training for study supervision.
	 Mentoring: Postgraduate students. Young scientists. Ongoing throughout the career of a researcher.

Area	Topic and Actions		
Organization	 Research ethics structure: Establish and maintain a research ethics structure and clearly described SOPs. Provide high quality ethics review processes by dedicated NHREC registered RECs. Provide clear review guidelines for REC members and researchers. Provide training for REC members on review and governance of research ethics. Provide training for researchers on research ethics and administration. 		
Organi	 Scientific committee structure: Establish and maintain a scientific committee structure and clearly described SOPs. Provide high quality scientific review processes by research entity scientific committees. Provide clear review guidelines for members and researchers. Provide training for committee members on the review process. Provide training for researchers on scientific review and administration. 		

Area	Topic and Actions	
Organization	 Integrated Research Integrity Management System (IRIMS): Foster responsible conduct of research practices. > Organizational structures and practices. > Training opportunities for academics and postgraduate students. Management of integrity breaches: > Formalized transparent procedures and processes. 	
	Intra-faculty:	Institutional:
	Restorative.	Disciplinary.
	Intra-faculty disciplinary process.	• Legal.
	Appeals process.	Referred back to IRIMS.

Area	Topic and Actions	
Organization	 Data practices and management: Data management system (infrastructure) for secure data collection, storage, retention, archiving, and sharing. Data management plan. Curate and share according to FAIR principles. (FAIR = Findable, accessible, interoperable, and reusable). 	
Ο	 Fair research assessment practices: Clear examination guidelines. Clear peer review guidelines. 	

Area	Topic and Actions	
c	 Research collaboration: Establish sound rules for transparent working agreements. Have MOUs in place. Have MTAs in place for samples or data. Ensure that collaborators all have practices for protection of personal information in place (POPIA) 	
Communication	 Declaration of interests: Clear guidance on the university's approach to declaring interest and handling of conflict of interest. Ensure transparent declarations of interest (financial e.g. funding, personal interests or professional activities e.g. peer review, evaluation, assessment, promotion, and collaboration). Ensure that conflicts are handled adequately. Clear guidelines for contract research. 	
	 Stakeholder/external organization communication: Guidance on the research integrity processes of the FHS 	

Area	Topic and Actions
Communication	 Publication and communication: Clear guidelines for authorship. Clear guidelines for publication practices e.g. plagiarism guidelines. Ensure openness and clarity in public engagement.
Comm	 Research ethics and research integrity webpage: Enhance communication with academics and postgraduate students. Provide resources on research integrity.

Area	Topic and Actions	
	Research ethics and res	search integrity training
	Academics	Postgraduate students
Training	 Introduction to research ethics (including review and administration). Introduction to research integrity (including review and administration). Responsible conduct of research. Research related policies, guidelines, and SOPs. Refresher courses on research methodology. Moral character development. Research project planning and management. On being a "good" scientist. Study supervision: How to become an effective study supervisor. Mentorship: How to be a mentor. Faculty of Health Sciences Research Mentorship Program. Future Professors' Program for Mid-level Academics. 	 Introduction to research ethics (including review and administration). Introduction to research integrity (including review and administration). Responsible conduct of research. Research related policies, guidelines, and SOPs. Research methodology. Moral character development. Research project planning and management. Plagiarism. On being a "good" student in research. Scientific writing.

Area	Topic and Actions	
	Research ethics and resear	ch integrity training (cont.)
	Academics	Postgraduate students
Training	 RSA Future Professors' Program (DHED). Peer review: Publications. Examination: Guidelines on how to examine. Scientific committee. Research ethics committee. Promotion. Grant applications. Etc . Plagiarism. Publication: Publication ethics. Authorship. Writing for publication. Data management. How to engage with the public on sharing research results. 	

FOSTERING A CLIMATE OF RCR MATRIX

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Training offered by the research support office.

MATRIX OF RESEARCH TRAINING OPPORTUNITIES

Formal training programs within the FHS:

Research Ethics Research Integrity Faculty of Health Sciences Research Mentorship Program.

Research entity specific career development opportunities:

Future Professors' Program for Midlevel Academics

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Personal development planning during task performance agreements based on what manager identifies or what researcher identifies as a need.



IRIMS related mentorship on an individualized bases as part of restorative actions.

Management of transgressions

Managed within the "NWU policy on academic integrity" (2018 revised 2021).

An initial intra-faculty process.

Focus on restorative actions and mentorship and less punitive or disciplinary in nature.

If, however, it is *research misconduct* it is escalated to the student judicial office or the office of the registrar.

POTENTIAL BREACHES IN RESEARCH INTEGRITY

Research non-compliance/ Violation of good research practice Continuous research non-compliance and/or violation of good research practice

Research misconduct



What are these acts that impact on the value or quality of research? (Greeff, 2021)

Research Non-Compliance

Any violation of:

- Any institutional and/or REC policies, procedures and regulation governing human or animal research.
- Any deviation from the REC-approved proposal/protocol.
- Types:
- > Minor
- Serious
- Continuous

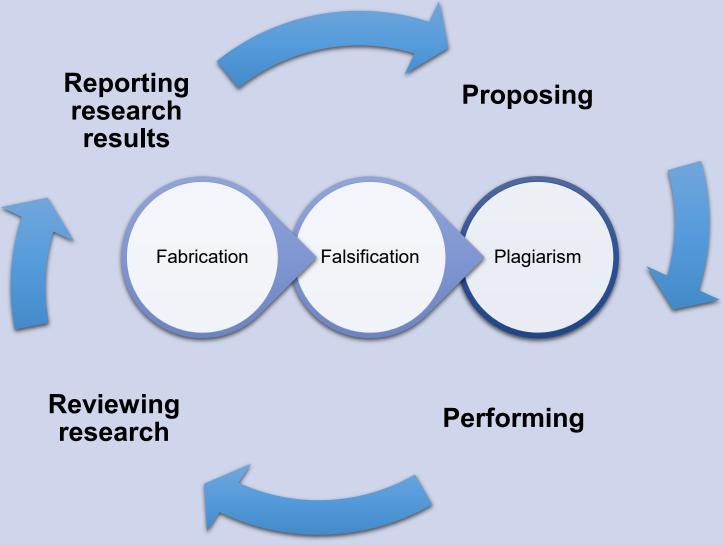
Violation of good research practice

Acts that damage the integrity of the research process or of researchers.

(Can also be continuous)

Research Misconduct

- Misconduct involves *intentional deception*.
- Referred to as **FFP**.



Breaches	Level of management	Structure	
Research non-complianceViolation of good research practice	Intra-faculty (Restorative under mentorship)	ERIC	
	SOP 1: Management of Research Non-compliance and/or Violation of Good Research Practice		
Continuous:	Intra-faculty	SRIC	
 Research non-compliance Violation of good research practice 	(From the IRIMS to an intra-faculty disciplinary system involving HR)SOP 2: Management of Continuous Research Noncompliance and/or Violation of Good research practice		
	Escalated to institutional level:	SRIC	
Research misconduct (FFP)	 Office of the Registrar (Staff member) Student Judicial Office (Postgraduate student) SOP 3: Management of Research Misconduct 		
Other	SOP 4: Management of the Research Integrity Appeals ProcessSOP 5: Management of Plagiarism and/or Copyright Infringement be an External Author	SRIC	
	SOP 6: Management of a Referral from the Registrar as a Breach in Research Integrity		
	SOP 7: Management of Whistleblowing pertaining to Research Ethics and Research Integrity		
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STANDING RESEARCH INTEGRITY COMMITTEE (SRIC)

A Standing Research Integrity Committee (SRIC) appointed in the FHS and consisting of the following members: In cases of fabrication and falsification the following independent ad hoc members are included:

- Chairperson: DD: R&I.
- Research Integrity Officer (RIO).
- Head of the Ethics Office for Research, Training and Support.
- A Research Director in the FHS knowledgeable in the management of RI (appointed for three years).
- Secretariat.

- Consulting attorney when required.
- Two subject experts appropriate to the case at hand.

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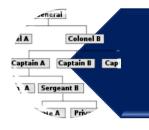
EMPANNELED RESEARCH INTEGRITY COMMITTEE (ERIC) ON INTRA-FACULTY LEVEL



A committee specifically empanelled and chaired by the DD: R&I.



For a specific formal intra-faculty research integrity assessment of an alleged research integrity breach (Non-Compliance, Violation of research practices, and continuous Non-Compliance).



The composition varies in each case.



Is made up of the Standing Research Integrity Committee (SRIC) and specific ad hoc members that will differ according to each new case at hand.

ERIC:



Ad Hoc Members:

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- Research Director (RD) (unit in which the alleged resides).
- School Director (SD) (school in which the alleged resides).
- An independent person (expert on the required research integrity issue at hand).

Processes and procedures

- Overarching IRIMS guidelines (see next slide).
- 7 Standard Operating Procedure (SOP) documents:
- SOP_FHS Research Integrity_1. Management of Research Non-compliance and/or Violation of Good Research Practice.
- 2) SOP_FHS Research Integrity_2. Management of Continuous Research Non-compliance and/or Violation of Good Research Practice.
- 3) SOP_FHS Research Integrity_3. Management of Research Misconduct.
- 4) SOP_FHS Research Integrity_4. Management of the Research Integrity Appeals Process.
- 5) SOP_FHS Research Integrity_5. Management of Plagiarism and/or Copyright Infringement by External Authors.
- 6) SOP_FHS Research Integrity_6. Management of a Referral Received from the Registrar as a Breach in Research Integrity.
- 7) SOP_FHS Research Integirty_7. Management of Whistleblowing Pertaining to Research Ethics and Research Integrity.

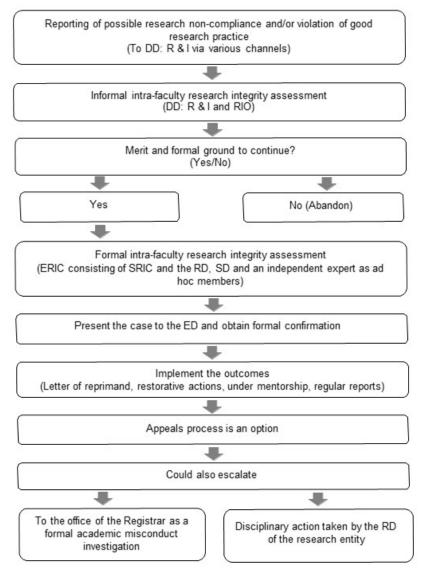
IRIMS GUIDELINES

Guidance to staff and students of the IRIMS. Overarching document that links various processes and procedures:

- Definitions
- Explaining research ethics and research integrity
- Fostering of a climate of Responsible Conduct of Research (RCR).
- Effective management of potential breaches in research integrity through acts of:
 - Research non-compliance.
 - Violation of good research practice.
 - Continuous research noncompliance and/or violation of good research practice.
 - Research misconduct (fabrication, falsification and plagiarism).
- Effective management of appeals processes stemming from assessments or investigations.

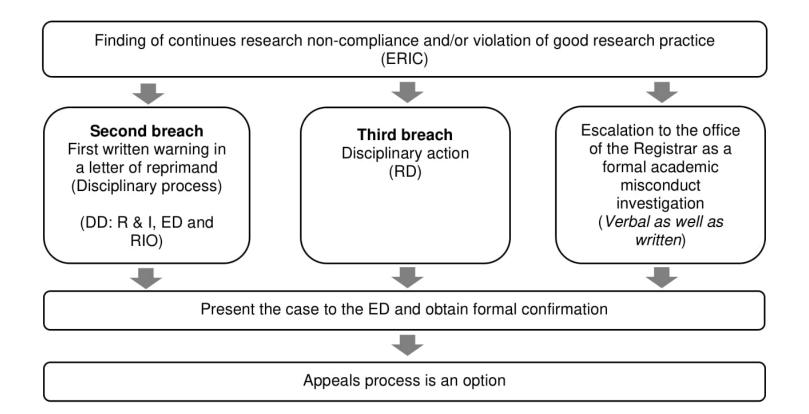
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SOP 1: PROCESS AND PROCEDURE FOR THE MANAGEMENT OF RESEARCH NON-COMPLIANCE AND/OR VIOLATION OF GOOD RESEARCH PRACTICE



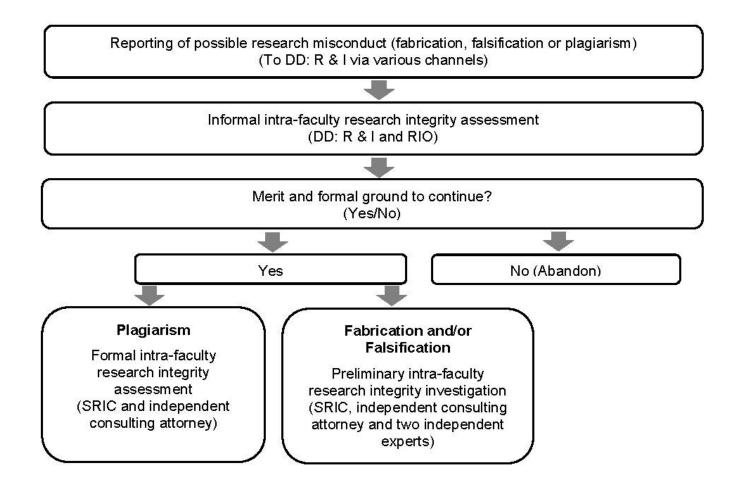
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SOP 2: PROCESS AND PROCEDURE FOR THE MANAGEMENT OF CONTINUOUS RESEARCH NON-COMPLIANCE AND/OR VIOLATION OF GOOD RESEARCH PRACTICE



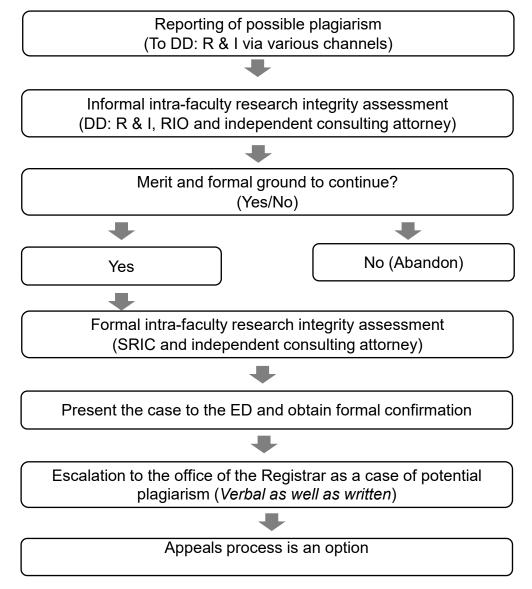


SOP 3: STRUCTURE FOR THE MANAGEMENT OF RESEARCH MISCONDUCT



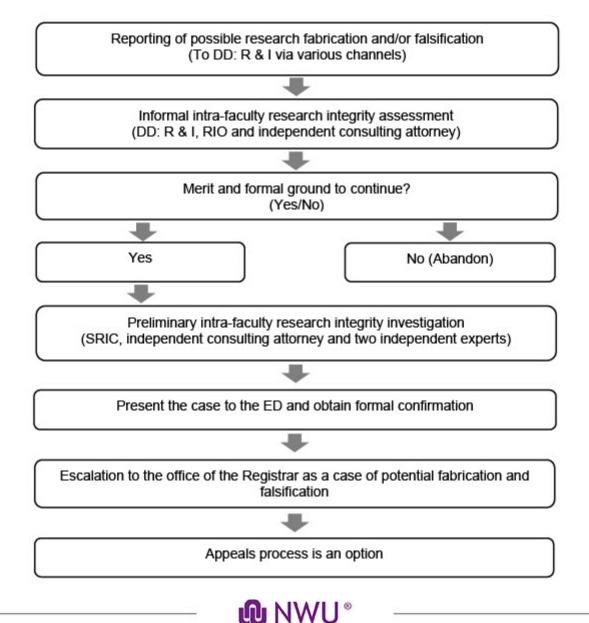
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PROCESS AND PROCEDURE FOR THE MANAGEMENT OF RESEARCH MISCONDUCT (*PLAGIARISM*)

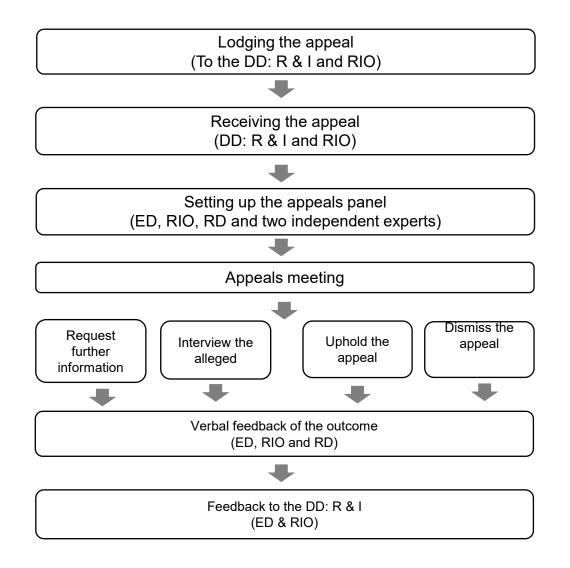




PROCESS AND PROCEDURE FOR THE MANAGEMENT OF RESEARCH MISCONDUCT (FALSIFICATION AND FABRICATION)

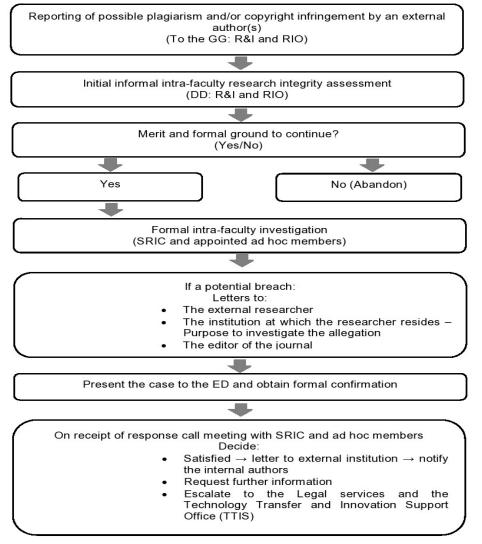


SOP 4: PROCESS AND PROCEDURE FOR THE MANAGEMENT OF THE APPEALS PROCESS



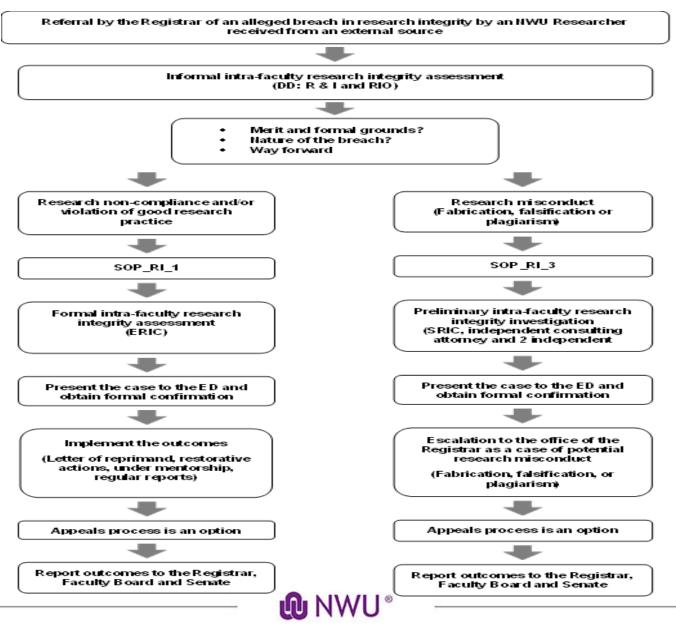


SOP 5: PROCESS AND PROCEDURE FOR THE MANAGEMENT OF PLAGIARISM BY EXTERNAL AUTHORS

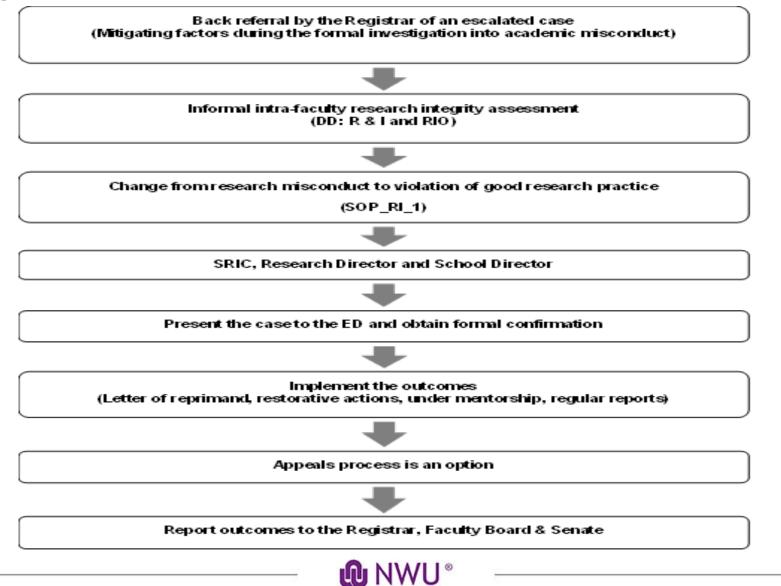




SOP 6: PROCESS AND PROCEDURE FOR THE MANAGEMENT OF AN EXTERNAL ALLEGATION OF RESEARCH MISCONDUCT AGAINST A NWU RESEARCHER



Processes and procedures for managing a back referral from the Registrar of an escalated academic or research misconduct case



SOP 7: MANAGEMENT OF WHISTLEBLOWING PERTAINING TO RESEARCH ETHICS AND RESEARCH INTEGRITY

* No flow diagram as it is just another form of reporting. Important however, is the specific form that should be completed.



Specific training sessions:

- Research integrity and research ethics training:
- □ September
- *Presented by the Ethics Office, FHS
- Repeat IRIMS session:
- □ 17 August (repeat)
- Faculty Lecture Ensuring responsible conduct of research: Research ethics, quality research and research integrity:

□ 19 Oct (repeat)

THANK YOU AND LOOKING FORWARD TO MAKING THIS A SUCCESS STORY WITH YOUR SUPPORT







