<u>Materials Design Analysis Reporting (MDAR)</u> Checklist for Authors

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: doi:10.31222/osf.io/9sm4x.). The MDAR checklist is a tool for authors, editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier		N/A
name, catalogue number and RRID, if available.		

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.		N/A
Provide accession number in repository OR		
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of		N/A
origin, genetic modification status.		

Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID		N/A
Animal observed in or captured from the field: Provide species, sex and age where possible		N/A
Model organisms: Provide Accession number in repository (where relevant) OR RRID		N/A

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		N/A
Microbes: provide species and strain, unique accession number if available, and source		N/A

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or		N/A
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent		N/A
obtained from study participants.		
Report on age and sex for all study participants.		N/A

<u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.		N/A
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N/A
by-step protocols are available.		
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been		
done, or if they were not carried out.		
Sample size determination	The dasatinib-sensitive and dasatinib-resistant	
	samples were collected from GSE33290.	
Randomisation		N/A
Blinding		N/A
Inclusion/exclusion criteria	Yes.The chip data of the Materials and methods,	
	differentiation expressed genes were identified	
	according to $\mid \log 2$ (fold change) $\mid > 2$ and $P < 0.05$.	
Comple definition and in laboratory realization	Ves /indicate whose presided costing/sources.	/-
State number of times the experiment was	Yes (indicate where provided: section/paragraph)	n/a
replicated in laboratory		N/A
Define whether data describe technical or biological		N/A
replicates		
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of		N/A
authority granting ethics approval (IRB or equivalent		
committee(s), provide reference number for		
approval.		
Studies involving experimental animals: State details		N/A
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
equivalent committee(s), provide reference number for approval.		
equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if		N/A
equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of		N/A
equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required,		N/A
equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of		N/A
equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required,	Yes (indicate where provided: section/paragraph)	N/A
equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	Yes (indicate where provided: section/paragraph)	n/a
equivalent committee(s), provide reference number for approval. Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why. Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a

<u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	Yes. ①The Recognition of Hubgenes from PPI	
excluded, and whether the criteria for exclusion were	network with CytoHubba of the Results, after	
determined and specified in advance.	introducing DEGenes into STRING, 28 isolated and non-interacting genes were removed. ②The LncRNA-miRNA-mRNA network construction of the results, we intersect the predicted miRNAs, 3 overlapping miRNAs that might play critical roles in dasatinib-resistance were selected, the others' miRNAs are excluded.	

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Yes. 1)The Expression profiles of mRNAs in chronic	
tests.	myeloid leukemia of the Results, We analyzed the	
	microarray dataset (GSE33290) on the criteria that	
	logFC >2 and P < 0.05.	
	2The Functional enrichment of the twelve hubgenes	
	of the results, the enriched gene oncology terms and	
	pathways were relevant with an adjusted FDR < 0.05.	
	KEGG analysis of DEGenes in STRING accord the FDR	
	(false discovery rate) < 0.05 standard.	
	3The Key RNAs and their associated clinical features	
	of the results, we analyze the effects significant for	
	survival (P value less than 0.05).	
	4 The Characteristics of MALAT1 in CML of the	
	results, KEGG analysis of MALAT1 in STRING accord	
	the FDR (false discovery rate) < 0.05 standard	
	⑤The PPI network construction & hub-genes	
	identification of the Materials and methods, we used	
	3 algorithms (Betweenness, Degree, Closeness) to	
	analyze the overlapping genes with CytoHubba ,	
	which was employed to recognize highly interacted	
	hub-genes.	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	Yes, there is no restriction to acquire these data on the website.	
If data are publicly available, provide accession number in repository or DOI or URL.	GSE33290 was downloaded from GEO (http://www.ncbi.nlm.nih.gov/geo/)	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	GSE33290 was downloaded from GEO (http://www.ncbi.nlm.nih.gov/geo/)	

Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential		
for replicating the main findings of the study:		
State whether the code or software is available.		N/A
If code is publicly available, provide accession		N/A
number in repository, or DOI or URL.		

Reporting

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a
MDAR framework recommends adoption of		
discipline-specific guidelines, established and		
endorsed through community initiatives. Journals		
have their own policy about requiring specific		

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guidelines and recommendations to complement MDAR.		
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publications.	

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