

2020 MVTPC Showcase:
Medical Bioscience Judging Form

KNOWLEDGE ACHIEVED				Individual Judge's Score
Superior 10 — 9 points - Outstanding use and understanding of terms and principles - Project far exceeds grade level understanding and depth of knowledge - Extensive literature search and source/literature citations - Supplements answers with additional relevant information	Excellent 8 — 6 points - Great use and understanding of terms and principles - Project exceeds grade level understanding and depth of knowledge - Additional literature search and source/literature citations - Supplements answers with relevant information	Good 5 — 3points - Good use and understanding of terms and principles - Project meets grade level understanding and depth of knowledge - Minimal literature search and source/literature citations - Minor supplementation of answers with relevant information	No Evidence 2 — 1 points - Substandard use and understanding of terms and principles - Project does not meet grade level understanding and knowledge - Little to no literature search and sourcing literature citations - No supplementation of answers	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10
USES OF SCIENTIFIC METHOD				
Superior 10 — 9 points Question clearly focuses on the scientific problem Hypothesis clearly states an educated guess Procedure clearly define the steps involved in the experiment Data Analysis summarizes several trials/samples and presents data in tables, graphs, etc. Conclusion is detailed and represented by a summary of the data	Excellent 8 — 6 points Question identifies the scientific problem Hypothesis states a guess with some backup info Procedure needs some explanation of steps involved in the experiment Data Analysis summarizes one or two trials/samples and presents some graphic forms Conclusion is somewhat detailed and represented by a summary of the data	Good 5 — 3 points Question identifies the scientific problem Hypothesis states a guess without substantiation Procedure defines the steps involved with gaps Data Analysis summarizes one trials/sample and presents data in only a few types of graphic form Conclusion is provided with some reference to the data and hypothesis	No Evidence 2 — 1 points Question identifies no scientific problem Hypothesis is missing Procedure defines the steps involved with many gaps Data Analysis summarizes data with no graphic representation Conclusion: No conclusion was apparent OR important details were overlooked.	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10
CLARITY OF EXPRESSION				
Superior 10 — 9 points Lab Journal/ data record book clearly shows experimental procedures, materials used, and shows the data Visual Display: Includes title, abstract, Hypothesis, Material List, Procedure, Data Analysis and Conclusion Oral Presentation: Uses the scientific method to present experiment; questions answered correctly & clearly, & shows good eye contact	Excellent 8 — 6 points Lab Journal/ data record book shows experimental procedures, materials used, and shows the data Visual Display: Is missing one of the important aspects from the superior rating Oral Presentation: Uses the scientific method to present experiment; questions answered correctly and clearly and eye contact minimal	Good 5 — 3 points Lab Journal/ data record book has gaps in experimental procedures, materials used, and shows minimal data Visual Display: Is missing two or three of the important aspects from the superior rating Oral Presentation: Uses the scientific method to present experiment; questions answered with unclear mastery of the subject, little eye contact	No Evidence 2 — 1 points Lab Journal/ data record book little evidence of experimental procedures, materials used, and data Visual Display: Is missing many of the important aspects from the superior rating Oral Presentation: Little evidence of scientific method, questions unanswered, eye contact minimal	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10

MORE CRITERIA OVER

ORIGINALITY, CREATIVITY				Individual Judge's Score
Superior 10 — 9 points • New idea, concept, principle, hypothesis, or insight • Novel association or relationship of previous discoveries or knowledge • Rigorous and exhaustive analyses of extensive or robust data or results that reveal previously unknown relations • Inquiry or design based experiment rather than a summary of knowledge • Relates to the scientific community or business	Excellent 8 – 6 points • Different idea, concept, principle, hypothesis, insight or approach • Conventional association or relationship of previous discoveries • Routine analyses of data or results previously known • Some inquiry or design based experimentation used but relies on summary of previous knowledge • Somewhat related to the scientific/business community	Good 5 — 3points • Ordinary idea, concept, principle, hypothesis, insight or approach • Familiar association or relationship of previous discoveries • Routine analyses of data or results that previously known • Slight inquiry or design based experimentation used but relies on summary of previous knowledge • Little relationship to the scientific/business community	No Evidence 2 – 1 points • Non-novel idea, concept, principle, hypothesis, insight or approach • No association or relationship of previous discoveries • No analyses of data or results that previously known • No inquiry or design based experimentation used but relies on summary of previous knowledge • No relationship to the scientific/business community	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10
TEAMWORK				
Superior 10 — 9 points • Partnerships were exemplary, clearly demonstrating an <u>assortment</u> of project partners/ business or industry advisors • Complete team work explained and demonstrated by project evaluation and team members answers to judges questions	Excellent 8 – 6 points • Partnerships were <u>evident</u>, clearly demonstrating project partners/business or industry advisors • <u>Adequate</u> teamwork explained and demonstrated by project evaluation and answers to judges questions	Good 5 – 3 points • Partnerships were evident, demonstrating <u>limited</u> project partners/business or industry advisors • <u>Weak</u> teamwork explained and demonstrated by project evaluation and answers to judges questions	No Evidence 2 – 1 points • Partnerships were <u>not evident</u>, with no instances of project partners or business/industry advisors • <u>No demonstration and explanation</u> of teamwork between team members	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10
PROJECT SCORE (5 -50 POINTS)				
SUMMARY SCORE (0 - 15 POINTS)				
TOTAL OVERALL SCORE				

OPTIONAL COMMENTS FROM JUDGES FOR STUDENTS:
