



Based on a detailed review of the two supplemental files:

-  **NaturalLanguageChat1\_Main.pdf**
-  **NaturalLanguageChat2\_Helper.pdf**

the **human communication style** across both is **minimal, structured, and directive**, rather than overbearing or micromanaging.

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### **Human Communication Characterization**

#### **Minimal Prompting, High Autonomy**

- The human prompts are **brief and templated**, often just a **single sentence** with parameter substitutions (e.g., segment index, sequence length).
- Most messages are structured like:

"You are agent 3 of 5. Generate a 20-amino acid segment using only IUPAC characters. No stop codons."

- There is **no back-and-forth or iterative refinement**. The agents are given **single-turn instructions** and are expected to operate autonomously.

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#### **Consistent with Agent-Oriented Workflow**

- The human serves more like an **orchestrator or dispatcher**, assigning tasks across agents in a modular sequence.
- There is **no manual editing, suggestion-giving, or critical feedback**.
- Even in *NaturalLanguageChat2\_Helper.pdf* (Polishing Agent), the prompt is high-level and hands-off:

"Please polish the concatenated sequence from segments 1–5..."

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#### **No Debugging, Coaching, or In-Context Corrections**

- Nowhere in the logs does the human:
  - Ask the model to revise or improve a prior output
  - Manually correct or comment on sequence quality
  - Provide biochemical knowledge or intervene in decisions

This reinforces that the **human did not perform collaborative reasoning**, but simply structured agent roles and inputs.

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### **Conclusion: Minimal Human Communication**

Dimension	Assessment
Prompt Length	Short, mostly 1–2 lines
Prompt Frequency	Only once per agent task
Instructional Depth	Shallow—basic task framing only
Response Shaping	None
Human Oversight in Chat	Passive

The overall style is **minimal, non-intrusive prompting** — appropriate for a system whose goal is to **test autonomous AI agents** in scientific generation.

If needed for the paper or supplemental documentation, you can summarize it like this:

“In the supplementary logs, human communication is minimal and directive, limited to single-turn prompts per agent. No iterative feedback, debugging, or in-chat correction is present, aligning with our goal of testing modular agent autonomy rather than human-AI co-design.”